Chinmaya Vidyalaya NTPC Unchahar

ANNUAL SYLLABUS BREAK UP

SESSION: 2025-2026

CLASS: XII

Subject :CS

Subject: CS

Month	Week	Topics	Sub Topics	Activities
April	W1	Revision of Python topics covered in Class XI	Token	**Conduct interactive quizzes and activities to refresh students' memory on key topics from Class 11, including computer system organization, Python fundamentals, and problem-solving techniques**
April	W2		Data Types	
April	W3		Errors & Output Handling	
April	W4	Function	types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope)	Function Fundamentals: Recap the concept of functions, parameters, return values, and local vs. global variables. Introduce recursion with simple examples.
April	W5	Exception Handling	Introduction, handling exceptions using try-except-finally blocks	Lab Work, Based on identified areas needing revision, conduct focused sessions on specific topics. This could involve project presentations, group discussions, and collaborative problem-solving activities.

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Month	Week	Topics	Sub Topics	Activities
May	W1	File Handling	Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths, Text file: opening a text file text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file	Explain different file handling operations (read, write, append) and file modes (text vs. binary). Demonstrate basic file operations using Python code examples.
May	W2		Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file, CSV file: import csv module, open / close csv file, write into a csv file using writer(),writerow(),writerows() and read from a csv file using reader()	Practical Applications: Students participate in coding exercises where they write programs to read data from a file, perform operations on the data (e.g., calculate statistics), and write the result to a new file.
May	W3	Stack	Stack, operations on stack (push & pop), implementation of stack using list.	Introduce the concept of a stack (LIFO - Last In First Out) data structure, its real-world applications, and basic operations (push, pop, peek) Implementation and Applications: Explore Python libraries for stack implementation or write code to create a custom stack class. Students practice solving problems using stacks (e.g., balancing parentheses, expression evaluation).
May	W4 & W5	SUMMER BREAK		

June	W1, W2 & W3	SUMMER BREAK		
June	W4	Revision		

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Month	Week	Topics	Sub Topics	Activities
July	W1	**Revision**		
July	W2	**Database concepts**	Database concepts: introduction to database concepts and its need	Introduce the basics of SQL (Structured Query Language) for database management. Explain concepts like tables, columns, data types, and simple queries (SELECT, FROM, WHERE).
July	W3	**Relational data model**	relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key)	Explore more complex SQL queries involving joins (INNER, OUTER), filtering with operators (LIKE, BETWEEN), and data manipulation (UPDATE, DELETE).
July	W4	**Structured Query Language**	Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key), drop table, insert, delete,	Lab Work
	W5		select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by,	Lab Work

Subject: CS

Month	Week	Topics	Sub Topics	Activities
August	W1	**Structured Query Language**	meaning of null, is null, is not null, like, update command, delete command, aggregate functions (max, min, avg, sum, count), group by, having clause, joins: cartesian product on two tables, equi-join and natural join	Lab Work
August	W2		**Complete Database Handling**	Perform Complete Transaction and data handling operation
August	W3	**Interface of python with an SQL database**	connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using connect(),	Utilize online SQL playgrounds or database management software for students to practice writing and executing queries for data retrieval and manipulation.
August	W4		cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database connectivity applications, use of %s format specifier or format() to perform queries	
August	W5	Revision		

Subject: CS

Month	Week	Topics	Sub Topics	Activities
September	W1	REVISION		
September	W2	HALF YEARLY EXAMINATION		
September	W3	HALF YEARLY EXAMINATION		
September	W4	**Evolution of networking & communication terminologies**	**introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET), concept of communication, components of data communication**	PPT Presentation
September	W5	**Transmission media & Networking Device**	**Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves) Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card)**	

Subject: CS

Month	Week	Topics	Sub Topics	Activities
October	W1	DUSSERA BREAK		
October	W2	**topologies and Network types**	**Network topologies and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree) Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP**	
October	W3	**web services**	**WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting**	
October	W4	**Project Work**		
October	W5	**Project Work**		

Subject: CS

Month	Week	Topics	Sub Topics	Activities
November	W1	**Project Work**		
November	W2	**Revision**		
November	W3	**Revision**		
November	W4	REVISION		
November	W5	REVISION & PB1		

Subject: CS				
Month	**Week**	**Topics**	**Sub Topics**	**Activities**
December	W1	PB1		
December	W2	PB1		
December	W3	REVISION		
December	W4	REVISION		
December	W5	REVISION		

Subject: CS

Month	Week	Topics	Sub Topics	Activities
January	W1	Winter Break		
January	W2	PB2		
January	W3	PB2		
January	W4	REVISION & BOARD PRACTICAL		
January	W5	REVISION & BOARD PRACTICAL		

Examination Wise Syllabus Breakup 2025-26

Examination	Chapter No./Chapter Name
PT-1	1. Unit 1
Term-1/Half Yearly Exam	Unit 1 Unit 3
PB-1	Unit 1 Unit 2 Unit 3
PB-2	Unit 1 Unit 2 Unit 3

Chinmaya Vidyalaya NTPC Unchahar

ANNUAL SYLLABUS BREAK UP

SESSION: 2025-2026

CLASS: XII

Subject :Hindi

Subject: Hindi

Month	Week	Topics	Sub Topics	Activities
April	W1	भक्तिन		अपने घर के रसोईघर के नियमों की सूची बनाइए
April	W2	बाजार दर्शन		अपनी नोटबुक में महॅगाई के कारणों की एक सूची बनाइए
April	W3	आत्म परिचय दिन जल्दी–जल्दी ढलता है		
April	W4	पतंग		
April	W5	रचनात्मक लेखन		

Subject: Hindi				
Month	**Week**	**Topics**	**Sub Topics**	**Activities**
May	W1	विभिन्न माध्यमों के लिए लेखन		
May	W2	विभिन्न माध्यमों के लिए लेखन		
May	W3	पत्रकारीय लेखन के विभिन्न रूप और लेखन प्रक्रिया		
May	W4	ग्रीष्मावकाश		
May	W5	ग्रीष्मावकाश		

Subject: Hindi

Month	Week	Topics	Sub Topics	Activities
June	W1	ग्रीष्मावकाश		
June	W2	ग्रीष्मावकाश		
June	W3	ग्रीष्मावकाश		
June	W4	काले मेघा पानी दे		आपके इलाके में सूखा पड़ने पर क्या–क्या अनुष्ठान किया जाता है ? पता करके लिखिए
June	W5	काले मेघा पानी दे कविता के बहाने		

Subject: Hindi

Month	Week	Topics	Sub Topics	Activities
July	W1	बात सीधी थी पर		नदी विषय पर एक कविता लिखिए
July	W2	सिल्वर वेडिंग		आपको अपने दादाजी या पिता जी की कौन–सी बातें पसंद नहीं हैं ? इसकी एक सूची बनाइए।
July	W3	विशेष लेखन–स्वरूप और प्रकार अपठित गद्यांश		
July	W4	कैसे करें कहानी का नाट्य रूपांतरण अपठित पद्यांश		
July	W5	कैमरे में बंद अपाहिज		किसी बेरोजगार व्यक्ति का साक्षात्कार लीजिए

Subject: Hindi

Month	Week	Topics	Sub Topics	Activities
August	W1	पहलवान की ढोलक		
August	W2	पहलवान की ढोलक		अपने किसी प्रिय चीज का मानवीकरण कीजिए
August	W3	जूझ		अपनी कॉपी में उन बातों की सूची बनाइए जिनसे आपको अबतक के जीवन में जूझना पड़ा है
August	W4	बादलराग		सर्वहारा और क्रांति पर एक अनुच्छेद लिखिए
August	W5	कवितावली लक्ष्मण मूर्च्छा		

Subject: Hindi

Month	Week	Topics	Sub Topics	Activities
September	W1	पुनरावृत्ति		
September	W2	पुनरावृत्ति अर्धवार्षिक परीक्षा		
September	W3	अर्धवार्षिक परीक्षा		
September	W4	रुबाइयॉ		
September	W5	उषा		संध्या के सौंदर्य को अपनी कॉपी में लिखिए

Subject: Hindi

Month	Week	Topics	Sub Topics	Activities
October	W1	छोटा मेरा खेत बगुलों के पंख		
October	W2	शिरीष के फूल		आप किन वृक्षों को पसंद करते हैं ? प्रत्येक की उपयोगिता के बारे में लिखिए
October	W3	श्रम विभाजन और जाति प्रथा		
October	W4	अतीत में दबे पॉव		इस पाठ से संबंधित चित्रों को अपनी कापी में संकलित कीजिए
October	W5	कैसे बनता है रेडियो नाटक नए और अप्रत्याशित विषयों पर लेखन		'महाकुंभ स्नान' पर एक नाटक लिखिए

Subject: Hindi

Month	Week	Topics	Sub Topics	Activities
November	W1			
November	W2			
November	W3			
November	W4			
November	W5			

Subject: Hindi

Month	Week	Topics	Sub Topics	Activities
December	W1			
December	W2			
December	W3			
December	W4			
December	W5			

Subject: Hindi

Month	Week	Topics	Sub Topics	Activities
January	W1			
January	W2			
January	W3			
January	W4			
January	W5			

Subject: Hindi

Month	Week	Topics	Sub Topics	Activities
February	W1			
February	W2			
February	W3			
February	W4			
February	W5			

Subject: Hindi

Month	Week	Topics	Sub Topics	Activities
March	W1			
March	W2			
March	W3			
March	W4			
March	W5			

Examination Wise Syllabus Breakup 2025-26

Examination	Chapter No./Chapter Name
PT-1	भक्तिन, बाज़ार दर्शन, आत्मपरिचय
Term-1/Half Yearly Exam	पतंग, काले मेघा पानी दे, कविता के बहाने, बात सीधी थी पर, सिल्वर वेडिंग, कैमरे में बंद अपाहिज, पहलवान की ढोलक, जूझ, बादलराग, कवितावली और लक्ष्मण मुर्च्छा, रचनात्मक लेखन, विभिन्न माध्यमों के लिए लेखन? पत्रकारीय लेखन के विभिन्न रूप और प्रक्रिया, अपठित गद्यांश एवं पद्यांश
PT-2	
Term-2/Annual Exam	समस्त पाठ्यक्रम

Chinmaya Vidyalaya NTPC Unchahar

ANNUAL SYLLABUS BREAK UP

SESSION: 2025-2026

CLASS: XII

Subject :Drawing

Subject: Drawing

Month	Week	Topics	Sub Topics	Activities
April	W1	1. THE MANUSCRIPT PAINTING TRADITION 2. COLOUR WHEEL 3. TONE	ORIGIN OF INDIAN MANUSCRIPT. PAINTING RELATED WITH THAT.	Topic explanation and practical
April	W2	1. THE MANUSCRIPT PAINTING TRADITION 2. TEXTURE 3. BOHO	ORIGIN OF INDIAN MANUSCRIPT. PAINTING RELATED WITH THAT.ALONG WITH BOHO PAINTING	Topic explanation and practical
April	W3	1. THE MANUSCRIPT PAINTING TRADITION 2. COOL AND WARM COLOURS	ORIGIN OF INDIAN MANUSCRIPT.ALONG WITH COOL AND WARM COLOUR PAINTING	Topic explanation and practical
April	W4	1. THE MANUSCRIPT PAINTING TRADITION 2. STILL LIFE PENCIL 3. STILL LIFE PEN	ORIGIN OF INDIAN MANUSCRIPT.ALONG WITH STILL LIFE	Topic explanation and practical
April	W5	1. THE MANUSCRIPT PAINTING TRADITION 2. STILL LIFE COLOUR	ORIGIN OF INDIAN MANUSCRIPT.ALONG WITH STILL LIFE	Topic explanation and practical

Subject: Drawing

Month	Week	Topics	Sub Topics	Activities
May	W1	1. THE MANUSCRIPT PAINTING TRADITION 2. STILL LIFE WATER COLOUR	ORIGIN OF INDIAN MANUSCRIPT.ALONG WITH STILL LIFE	Topic explanation and practical
May	W2	1. STILL LIFE WATER COLOUR	COLOURING WITH WATER COLOUR	PRACTICAL TIME
May	W3	1. STILL LIFE WATER COLOUR	COLOURING WITH WATER COLOUR	PRACTICAL TIME
May	W4			
May	W5			

Subject: Drawing

Month	Week	Topics	Sub Topics	Activities
June	W1			
June	W2			
June	W3			
June	W4			
June	W5	3. THE RAJASTHANI SCHOOLS OF PAINTING 4. LAND SCAPE- PEN	HISTORY ABOUT RAJASTANI SCHOOL OF PAINTING. LANDSCAPE CREATION	THEORY AND PRACTICAL CLASS

Subject: Drawing

Month	Week	Topics	Sub Topics	Activities
July	W1	3. THE RAJASTHANI SCHOOLS OF PAINTING 4. LAND SCAPE- PEN	HISTORY ABOUT RAJASTANI SCHOOL OF PAINTING. LANDSCAPE CREATION	THEORY AND PRACTICAL CLASS
July	W2	3. THE RAJASTHANI SCHOOLS OF PAINTING 4. LAND SCAPE- PEN	HISTORY ABOUT RAJASTANI SCHOOL OF PAINTING. LANDSCAPE CREATION	THEORY AND PRACTICAL CLASS
July	W3	2. THE RAJASTHANI SCHOOLS OF PAINTING 4. HAND , LEG AND FACE STUDY	HISTORY ABOUT RAJASTANI SCHOOL OF PAINTING. HUMAN ANATOMY	THEORY AND PRACTICAL CLASS
July	W4	2. THE RAJASTHANI SCHOOLS OF PAINTING 3. HAND , LEG AND FACE STUDY	HISTORY ABOUT RAJASTANI SCHOOL OF PAINTING. HUMAN ANATOMY	THEORY AND PRACTICAL CLASS
July	W5	2. THE RAJASTHANI SCHOOLS OF PAINTING 3. HAND , LEG AND FACE STUDY	HISTORY ABOUT RAJASTANI SCHOOL OF PAINTING. HUMAN ANATOMY	THEORY AND PRACTICAL CLASS

Subject: Drawing

Month	Week	Topics	Sub Topics	Activities
August	W1	4. THE MUGHAL SCHOOL OF MINIATURE PAINTING 5. CALLIGRAPHY	ORIGIN OF MUGAL SCHOOL OF MINIATURE PAINTING. CALLIGRAPHY BASICS.	THEORY AND PRACTICAL CLASS
August	W2	4. THE MUGHAL SCHOOL OF MINIATURE PAINTING 5. CALLIGRAPHY	ORIGIN OF MUGAL SCHOOL OF MINIATURE PAINTING. CALLIGRAPHY BASICS.	THEORY AND PRACTICAL CLASS
August	W3	3. THE MUGHAL SCHOOL OF MINIATURE PAINTING 4, CALLIGRAPHY	ORIGIN OF MUGAL SCHOOL OF MINIATURE PAINTING. CALLIGRAPHY BASICS.	THEORY AND PRACTICAL CLASS
August	W4	3. THE MUGHAL SCHOOL OF MINIATURE PAINTING 4. WARLI ART	ORIGIN OF MUGAL SCHOOL OF MINIATURE PAINTING. WARLI DRAWING.	THEORY AND PRACTICAL CLASS
August	W5	3. THE MUGHAL SCHOOL OF MINIATURE PAINTING 4. WARLI ART	ORIGIN OF MUGAL SCHOOL OF MINIATURE PAINTING. WARLI DRAWING.	THEORY AND PRACTICAL CLASS

Subject: Drawing

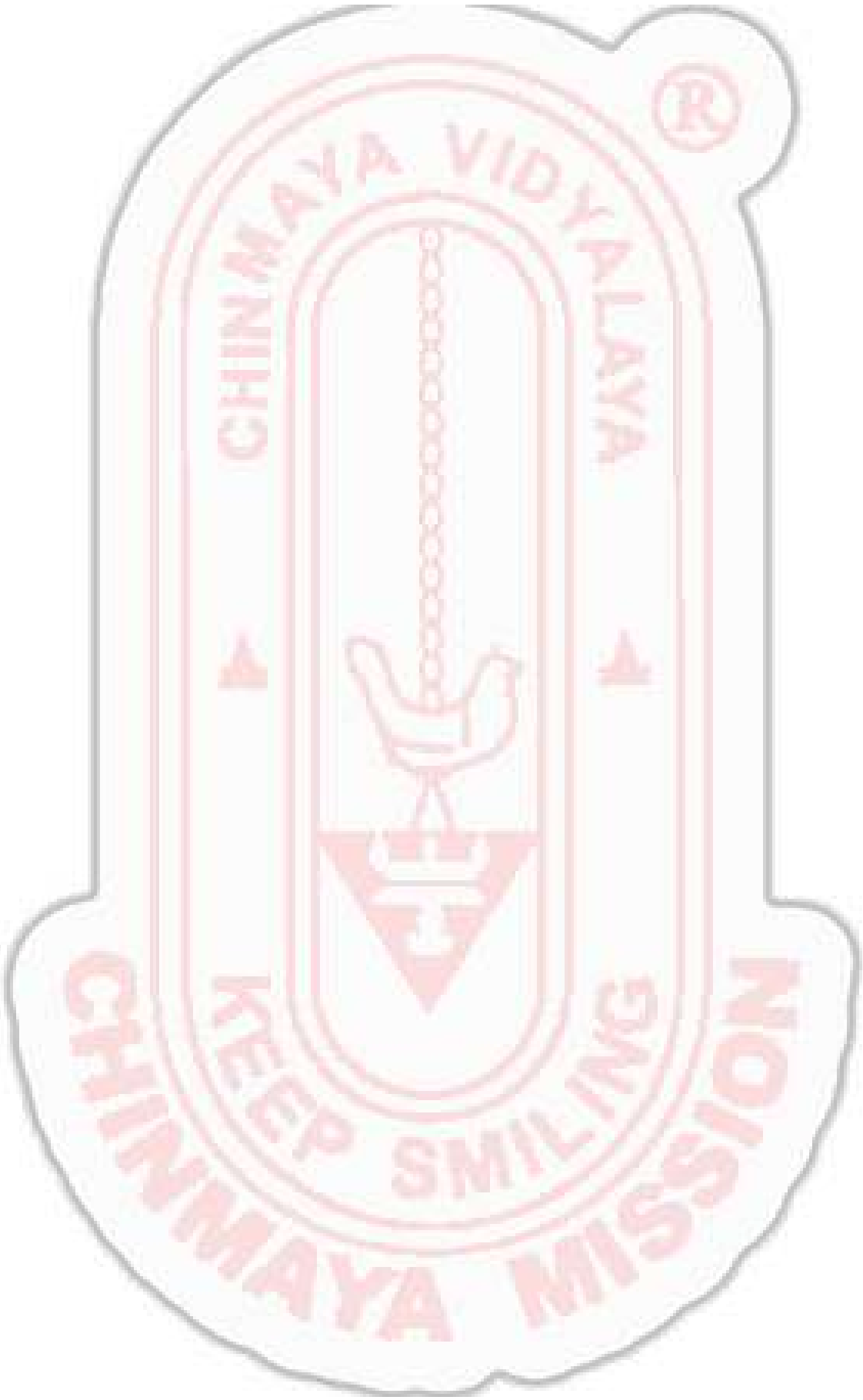
Month	Week	Topics	Sub Topics	Activities
September	W1	5. THE DECCANI SCHOOLS OF PAINTING 6. WARLI ART	INTRODUCTION TO DECCANI SCHOOLS OF PAINTING. WARLI ART COLOURING.	THEORY AND PRACTICAL CLASS
September	W2	5. THE DECCANI SCHOOLS OF PAINTING 6. WARLI ART	INTRODUCTION TO DECCANI SCHOOLS OF PAINTING. WARLI ART COLOURING.	THEORY AND PRACTICAL CLASS
September	W3	5. THE DECCANI SCHOOLS OF PAINTING 6. DOODLE ART	INTRODUCTION TO DECCANI SCHOOLS OF PAINTING.DOODLE DRAWING.	THEORY AND PRACTICAL CLASS
September	W4	5. THE DECCANI SCHOOLS OF PAINTING 6. DOODLE ART	INTRODUCTION TO DECCANI SCHOOLS OF PAINTING.DOODLE DRAWING.	THEORY AND PRACTICAL CLASS
September	W5	4. THE DECCANI SCHOOLS OF PAINTING 6. DOODLE ART	INTRODUCTION TO DECCANI SCHOOLS OF PAINTING.DOODLE DRAWING.	THEORY AND PRACTICAL CLASS

Subject: Drawing

Month	Week	Topics	Sub Topics	Activities
October	W1	1. THE PAHARI SCHOOLS OF PAINTING 2. GOND ART	INTRODUCTION TO PAHARI SCHOOLS OF PAINTING. GOND ART DRAWING AND COLOURING.	THEORY AND PRACTICAL CLASS
October	W2	5. THE PAHARI SCHOOLS OF PAINTING 6. GOND ART	INTRODUCTION TO PAHARI SCHOOLS OF PAINTING. GOND ART DRAWING AND COLOURING.	THEORY AND PRACTICAL CLASS
October	W3	5. THE PAHARI SCHOOLS OF PAINTING 6. GOND ART	INTRODUCTION TO PAHARI SCHOOLS OF PAINTING. GOND ART DRAWING AND COLOURING.	THEORY AND PRACTICAL CLASS
October	W4	7. THE BENGAL SCHOOL AND CULTURAL NATIONALISM 8. MADHUBANI ART	INTRODUCTION TO BENGAL SCHOOL AND CULTURAL NATIONALISM MADHUBANI ART DRAWING AND COLOURING.	THEORY AND PRACTICAL CLASS
October	W5	7. THE BENGAL SCHOOL AND CULTURAL NATIONALISM 8. MADHUBANI ART	INTRODUCTION TO BENGAL SCHOOL AND CULTURAL NATIONALISM MADHUBANI ART DRAWING AND COLOURING.	THEORY AND PRACTICAL CLASS

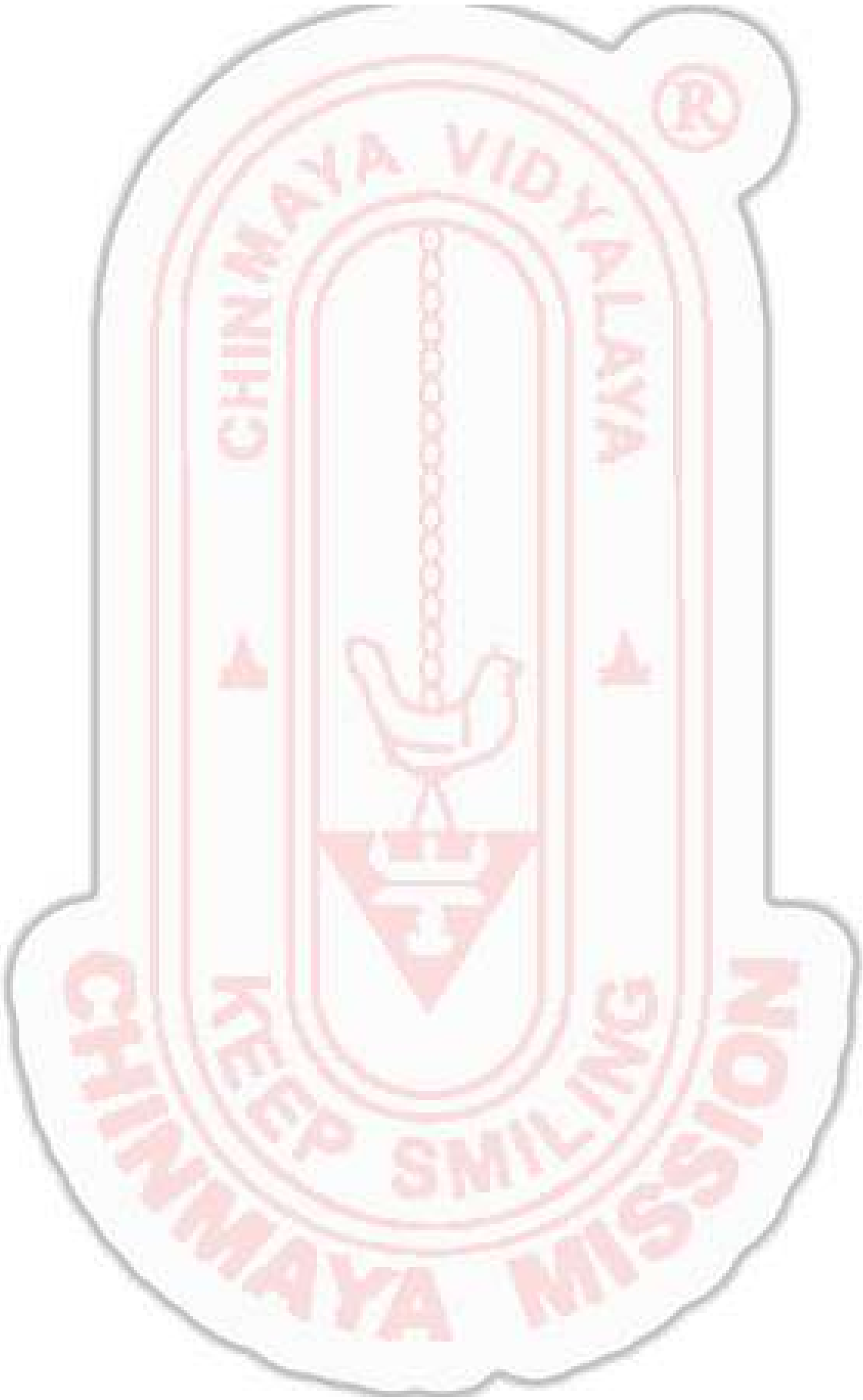
Subject: Drawing

Month	Week	Topics	Sub Topics	Activities
November	W1	7. THE BENGAL SCHOOL AND CULTURAL NATIONALISM 8. MADHUBANI ART	INTRODUCTION TO BENGAL SCHOOL AND CULTURAL NATIONALISM MADHUBANI ART DRAWING AND COLOURING.	THEORY AND PRACTICAL CLASS
November	W2	7. THE BENGAL SCHOOL AND CULTURAL NATIONALISM 8. SOHARAI ART	INTRODUCTION TO BENGAL SCHOOL AND CULTURAL NATIONALISM MADHUBANI ART DRAWING AND COLOURING.	THEORY AND PRACTICAL CLASS
November	W3	3. THE MODERN INDIAN ART 4. SOHARAI ART	INTRODUCTION TO MODERN INDIAN ART. SOHARAI ART DRAWING AND COLOURING.	THEORY AND PRACTICAL CLASS
November	W4	7. THE MODERN INDIAN ART 8. SOHARAI ART	INTRODUCTION TO MODERN INDIAN ART. SOHARAI ART DRAWING AND COLOURING.	THEORY AND PRACTICAL CLASS
November	W5	7. THE MODERN INDIAN ART 8.INSTALLATION ART	INTRODUCTION TO MODERN INDIAN ART. INSTALLATION BASICS.	THEORY AND PRACTICAL CLASS


CHINMAYA VIDYALAYA
KEEP SMILING
CHINMAYA MISSION

Subject: Drawing

Month	Week	Topics	Sub Topics	Activities
December	W1	7. THE MODERN INDIAN ART 8.INSTALLATION ART	INTRODUCTION TO MODERN INDIAN ART. INSTALLATION BASICS.	THEORY AND PRACTICAL CLASS
December	W2	9. THE LIVING ART TRADITIONS OF INDIA 10. INSTALLATION ART	INTRODUCTON TOTHE LIVING ART TRADITIONS OF INDIA. INSTALLATION ART BASICS.	THEORY AND PRACTICAL CLASS
December	W3	9. THE LIVING ART TRADITIONS OF INDIA 10. INSTALLATION ART	INTRODUCTON TOTHE LIVING ART TRADITIONS OF INDIA. INSTALLATION ART BASICS.	THEORY AND PRACTICAL CLASS
December	W4	9. THE LIVING ART TRADITIONS OF INDIA 10. INSTALLATION ART	INTRODUCTON TOTHE LIVING ART TRADITIONS OF INDIA. INSTALLATION ART BASICS.	THEORY AND PRACTICAL CLASS
December	W5	9. THE LIVING ART TRADITIONS OF INDIA 10. G.R SANTOSH	INTRODUCTON TOTHE LIVING ART TRADITIONS OF INDIA. INTRODUCTION ABOUT G.R SANTOSH AND HIS PAINTINGS.	THEORY AND PRACTICAL CLASS


CHINMAYA VIDYALAYA
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Chinmaya Vidyalaya NTPC Unchahar

ANNUAL SYLLABUS BREAK UP

SESSION: 2025-2026

CLASS: XII

Subject : Value Education

Subject: Value Education

Month	Week	Topics	Sub Topics	Activities
April	W1	• Moral and ethical development	• Understand right from wrong and make ethical choices	• Group discussion
April	W2	• Moral and ethical development	• Understand right from wrong and make ethical choices	• Group discussio n
April	W3	• Moral and ethical development	• Understand right from wrong and make ethical choices	• Group discussion
April	W4	• Moral and ethical development	• Understand right from wrong and make ethical choices	• Group discussion
April	W5	• Character building	• Reflection on action and make decisions based on valoes	• Live examples

Subject: Value Education				
Month	**Week**	**Topics**	**Sub Topics**	**Activities**
May	W1	• Character building	• Reflection on action and make decisions based on valoes	• Live examples
May	W2	• Character building	• Reflection on action and make decisions based on valoes	• Live examples
May	W3	• Character building	• Reflection on action and make decisions based on valoes	• Live examples
May	W4	Summer break		
May	W5	Summer break		

Subject: Value Education

Month	Week	Topics	Sub Topics	Activities
June	W1	Summer break		
June	W2	Summer Break		
June	W3	Summer Break		
	W4	• Citizenship and Social responsibilities	• Civic duity and responsibility towards community and nation	• Show examples through smart board
	W5	• Citizenship and Social responsibilities	• Civic duity and responsibility towards community and nation	• Show examples through smart board

Subject: Value Education				
Month	**Week**	**Topics**	**Sub Topics**	**Activities**
July	W1	• Citizenship and Social responsibilities	• Civic duity and responsibility towards community and nation	• Show examples through smart board
July	W2	• Citizenship and Social responsibilities	• Civic duity and responsibility towards community and nation	• Show examples through smart board
July	W3	• Emotional Intelligence	• Ability to understand and manage own emotions	• Group discussion
July	W4	• Emotional Intelligence	• Ability to understand and manage own emotions	• Group discussion
July	W5	• Emotional Intelligence	• Ability to understand and manage own emotions	• Group discussion

Subject: Value Education				
Month	**Week**	**Topics**	**Sub Topics**	**Activities**
August	W1	• Life skills	• Manage self awareness, problem solving, decision making and coping with stress	• Individual experience
August	W2	• Life skills	• Manage self awareness, problem solving, decision making and coping with stress	• Individual experience
August	W3	• Life skills	• Manage self awareness, problem solving, decision making and coping with stress	• Individual experience
August	W4	• Life skills	• Manage self awareness, problem solving, decision making and coping with stress	• Individual experience
August	W5	• Life skills	• Manage self awareness, problem solving, decision making and coping with stress	• Individual experience

Subject: Value Education				
Month	**Week**	**Topics**	**Sub Topics**	**Activities**
September	W1	• Life skills	• Manage self awareness, problem solving, decision making and coping with stress	• Individual experience
September	W2	Half Yearly Examination	----------	----------
September	W3	Half Yearly Examination	----------	----------
September	W4	• Values and contemporary realities	• Address the real world issues and challenges with empathy and critical thinking	• Personal opinions
September	W5	• Values and contemporary realities	• Address the real world issues and challenges with empathy and critical thinking	• Personal opinions

Subject: Value Education				
Month	**Week**	**Topics**	**Sub Topics**	**Activities**
October	W1	Dusshera Holidays		
October	W2	• Values and contemporary realities	• Address the real world issues and challenges with empathy and critical thinking	• Personal opinions
October	W3	• Values and contemporary realities	• Address the real world issues and challenges with empathy and critical thinking	• Personal opinions
October	W4	Deepawali Holidays	----------	----------
October	W5	• Skills for Self development	• Necessary attitude, qualities and skills for personal and psychological development	• Group discussion

Subject: Value Education

Month	Week	Topics	Sub Topics	Activities
November	W1	• Skills for Self development	• Necessary attitude, qualities and skills for personal and psychological development	• Group discussion
November	W2	• Skills for Self development	• Necessary attitude, qualities and skills for personal and psychological development	• Group discussion
November	W3	• Skills for Self developm ent	• Necessary attitude, qualities and skills for personal and psychological development	• Group discussion
November	W4	• 1st Pre Board examination	-------	-------
November	W5			

Subject: Value Education				
Month	**Week**	**Topics**	**Sub Topics**	**Activities**
December	W1	• 1st Pre Board examination	--------	-- --
December	W2	• 1st Pre Board Examination		
December	W3	• Revision		
December	W4	• Revision		
December	W5	• Revision		

Subject: Value Education				
Month	**Week**	**Topics**	**Sub Topics**	**Activities**
January	W1	• 2nd Pre Board Examination		
January	W2	• 2nd Pre Board Examination		
January	W3	• 2nd Pre Board Examination		
January	W4	• Revision		
January	W5	• Revision		

Subject: Value Education				
Month	**Week**	**Topics**	**Sub Topics**	**Activities**
February	W1	• Revision		
February	W2	• Revision		
February	W3	• Revision		
February	W4			
February	W5			

Subject: Value Education				
Month	**Week**	**Topics**	**Sub Topics**	**Activities**
	W1			
	W2			
	W3			
	W4			
	W5			

Examination Wise Syllabus Breakup 2025-26

Examination	Chapter No./Chapter Name
PT-1	**……**
Term-1/Half Yearly Exam	Moral and ethical development, Character Building, Citizenship and Social responsibilities, Emotional Intelligence, Life skills
PT-2	**……**
Term-2/Annual Exam	Moral and ethical development, Character Building, Citizenship and Social responsibilities, Emotional Intelligence, Life skills, Values and Contemporary realities, Skills for Self development

Chinmaya Vidyalaya NTPC Unchahar

ANNUAL SYLLABUS BREAK UP

SESSION: 2025-2026

CLASS: XII

Subject : English

Subject: English

Month	Week	Topics	Sub Topics	Activities
April	W1	Section- B Invitation and replies to the invitation.	Formal and Informal Invitation	Designing card-style invitations and writing formal and informal letter-style invitation
April	W2	Letter writing	Letter to the Editor Job Application	Cut and paste 'letters to the editor' and job advertisements from the newspaper to know the qualifications for different posts.
April	W3	Report Writing Article Writing	Newspaper report Magazine Report	Cut and paste different types of reports from the newspaper. Report writing on various events
April	W4	The Last Lesson		Notice Writing Speech
April	W5	My Mother at Sixty Six		Creative writing

Subject: English				
Month	**Week**	**Topics**	**Sub Topics**	**Activities**
May	W1	Lost Spring		Article writing
May	W2	Keeping Quiet		Creative writing
May	W3	Summer Break		
May	W4	Summer Break		
May	W5	Summer Break		

Subject: English

Month	Week	Topics	Sub Topics	Activities
June	W1			
June	W2			
June	W3			
June	W4	Revision of writing section topics	Notice, invitation, letter to the Editor, Job Application	
June	W5	Revision of writing section topics		

Subject: English

Month	Week	Topics	Sub Topics	Activities
July	W1	The Third Level		Speaking and listening skills
July	W2	The Tiger King		Speaking and listening skills
July	W3	Journey to the End of the Earth		Speaking and listening exercises
July	W4	Deep Water (Prose) Keeping Quiet (Poem)		Students talk
July	W5	Poem continued		Socratic Seminar

Subject: English

Month	Week	Topics	Sub Topics	Activities
August	W1	The Rattrap		
August	W2	The Rattrap continued A Thing of Beauty (Poem)		Panel Discussion
August	W3	Indigo A Roadside stand		Panel Discussion continued
August	W4	Poets and Pancakes The Interview		Group Discussion
August	W5	Going Places Aunt Jennifer's Tigers (Poem)		Article writing

Subject: English

Month	Week	Topics	Sub Topics	Activities
September	W1	Revision of Writing Section topics		
September	W2	Half Yearly Exam		
September	W3	Half Yearly Exam		
September	W4	Review of Writing skill topics		Writing skills topics
September	W5	Review of Writing section topics		Writing skills topics

Subject: English

Month	Week	Topics	Sub Topics	Activities
October	W1	Dushehra break		
October	W2	The Enemy		Group Discussion
October	W3	On the Face of It		
October	W4	Memories of Childhood		
October	W5	Memories of childhood		

Subject: English

Month	Week	Topics	Sub Topics	Activities
November	W1	Revision	Unseen passage	Project work
November	W2	Revision	Unseen Passage-1 Case study based passage	Project work
November	W3	Revision	Literature	Project work
November	W4	Revision	Writing skills	Project work
November	W5	Revision	Writing skills	Project work

Subject: English

Month	Week	Topics	Sub Topics	Activities
	W1			
	W2			
	W3			
	W4			
	W5			

Subject: English				
Month	**Week**	**Topics**	**Sub Topics**	**Activities**
	W1			
	W2			
	W3			
	W4			
	W5			

Subject: English

Month	Week	Topics	Sub Topics	Activities
	W1			
	W2			
	W3			
	W4			
	W5			

Subject: English

Month	Week	Topics	Sub Topics	Activities
	W1			
	W2			
	W3			
	W4			
	W5			

Examination Wise Syllabus Breakup 2025-26

Examination	Chapter No./Chapter Name
PT-1	Notice writing, invitation, Letter to the Editor, The Last Lesson, My mother at Sixty-Six, unseen passage
Term-1/Half Yearly Exam	Literature- Flamingo- Lesson 1 to 4 Poems- My Mother at Sixty-Six, Keeping Quiet, A thing of Beauty Vistas- Lesson 1 to 3 Writing section- Notice, Invitation, Replies to the Invitations, Letter to the Editor, Job Application, Article Writing, Report Writing Unseen passage-1, Case Study based passage-1
PB-1	(Complete Syllabus) Literature- Flamingo- Lesson 1 to 8 Poems- My Mother at Sixty-Six, Keeping Quiet, A thing of Beauty, A Roadside Stand, Aunt Jennifer's Tigers Vistas- Lesson 1 to 4, On the Face of It, Memories of Childhood Writing section- Notice, Invitation, Replies to the Invitations, Letter to the Editor, Job Application, Article Writing, Report Writing Unseen passage-1, Case Study based passage-1
PB-2	Same as PB-1

Chinmaya Vidyalaya NTPC Unchahar

ANNUAL SYLLABUS BREAK UP

SESSION: 2025-2026

CLASS: 9 to 12

Subject :**SPORTS & GAMES**

Subject: SPORTS & GAMES

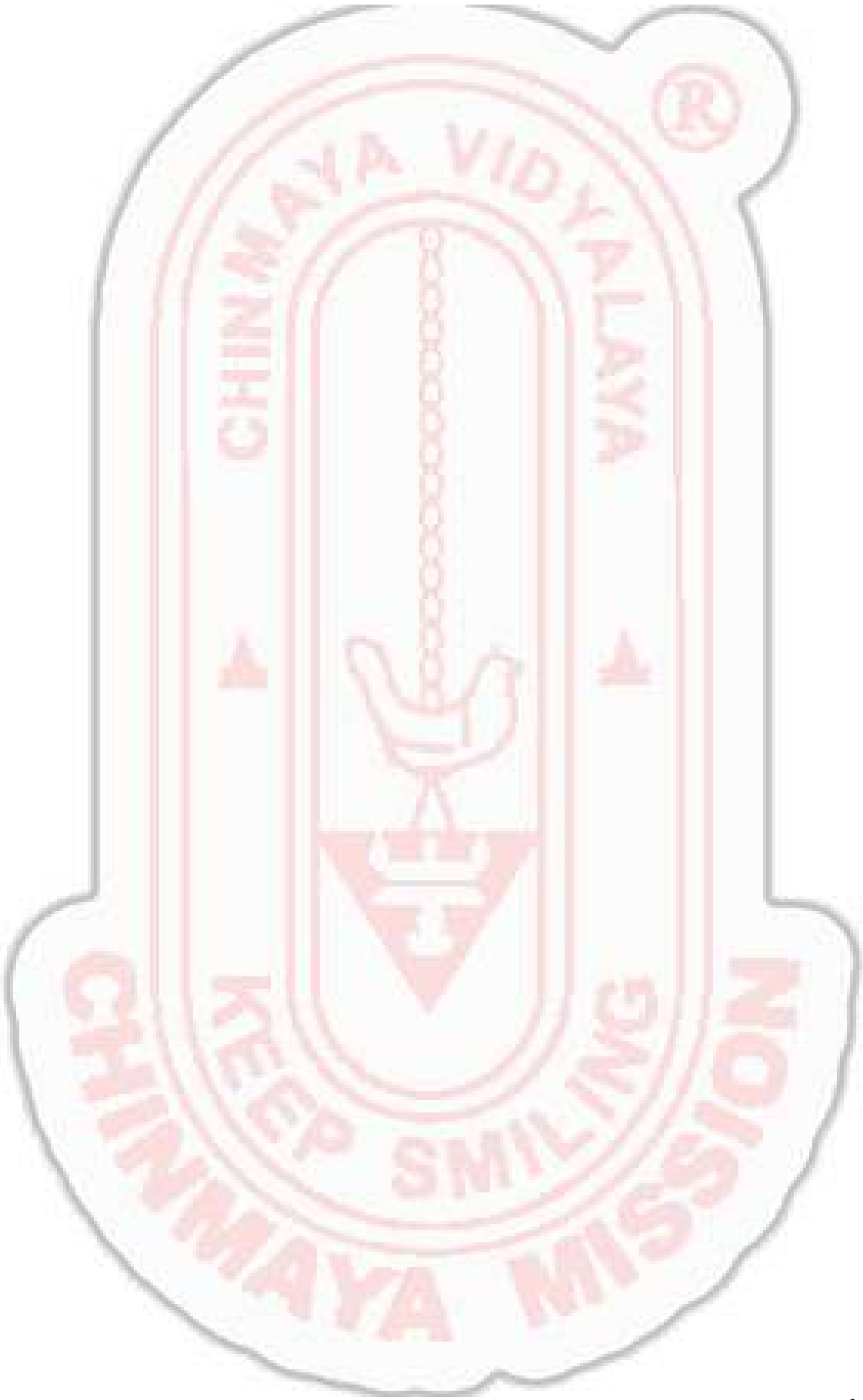
Month	Week	Topics	Sub Topics	Activities
April	W1	**Volleyball**	Passing, Serving, Teamwork	Warm-up Passing drills Serving practice - Teamwork activities
		Kho-Kho	Running, Tagging, Team Coordination	Warm-up Kho-Kho basic training Running drills Tagging practice
		Judo	Basic Throws, Holds, Falling Techniques	Warm-up Learning basic throws Falling techniques Basic holds
April	W2	**Volleyball**	Passing, Serving, Teamwork	Warm-up Passing drills Serving practice - Teamwork activities
		Kho-Kho	Running, Tagging, Team Coordination	Warm-up Kho-Kho basic training Running drills Tagging practice
		Judo	Basic Throws, Holds, Falling Techniques	Warm-up Learning basic throws Falling techniques Basic holds
April	W3	**Volleyball**	Passing, Serving, Teamwork	Warm-up Passing drills Serving practice - Teamwork activities
		Kho-Kho	Running, Tagging, Team Coordination	Warm-up Kho-Kho basic training Running drills Tagging practice
		Judo	Basic Throws, Holds, Falling Techniques	Warm-up Learning basic throws Falling techniques Basic holds

April	W4	**Volleyball** **Kho-Kho** **Judo**	Passing, Serving, Teamwork Running, Tagging, Team Coordination Basic Throws, Holds, Falling Techniques	Warm-up Passing drills Serving practice - Teamwork activities Warm-up Kho-Kho basic training Running drills Tagging practice Warm-up Learning basic throws Falling techniques Basic holds
April	W5	**Volleyball** **Kho-Kho** **Judo**	Passing, Serving, Teamwork Running, Tagging, Team Coordination Basic Throws, Holds, Falling Techniques	Warm-up Passing drills Serving practice - Teamwork activities Warm-up Kho-Kho basic training Running drills Tagging practice Warm-up Learning basic throws Falling techniques Basic holds

Subject: SPORTS & GAMES

Month	Week	Topics	Sub Topics	Activities
May	W1	**Volleyball** **Kho-Kho**	Passing, Serving, Teamwork Running, Tagging, Team Coordination Basic Throws, Holds,	Warm-up Passing drills Serving practice - Teamwork activities Warm-up Kho-Kho basic training Running drills Tagging practice Warm-up

		Judo	Falling Techniques	Learning basic throws Falling techniques Basic holds
May	W2	**Yoga** **Kho-Kho** **Judo**	Strength and Flexibility Running, Tagging, Team Coordination Basic Throws, Holds, Falling Techniques	Warm-up Yoga flow sequence Warm-up -Kho-Kho basic training Running drills Tagging practice Warm-up Learning basic throws Falling techniques Basic holds
June	W3	**Volleyball** **Football** **Judo**	Passing, Serving, Teamwork Ball Control, Team Tactics, Mini-Matches Basic Throws, Holds, Falling Techniques	Warm-up Passing drills Serving practice - Teamwork activities Running drills Tagging practice Warm-up Learning basic throws Falling techniques Basic holds
June	W4	**Athletics** **Football** **Judo**	Middle Distance Running, Sprints Ball Control, Team Tactics, Mini-Matches Basic Throws, Holds, Falling Techniques	Warm-up Sprint drills Middle distance Relay races Warm-up Ball control drills Team play Mini-matches Running drills Tagging practice Warm-up Learning basic throws Falling techniques Basic holds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Subject: SPORTS & GAMES

Month	Week	Topics	Sub Topics	Activities
July	W1	**Athletics** **Football** **Judo**	Middle Distance Running, Sprints Ball Control, Team Tactics, Mini-Matches Basic Throws, Holds, Falling Techniques	Warm-up Sprint drills Middle distance Relay races Warm-up Ball control drills Team play Mini-matches Running drills Tagging practice Warm-up Learning basic throws Falling techniques Basic holds
July	W2	**Athletics** **Football** **Judo**	Middle Distance Running, Sprints Ball Control, Team Tactics, Mini-Matches Basic Throws, Holds, Falling Techniques	Warm-up Sprint drills Middle distance Relay races Warm-up Ball control drills Team play Mini-matches Running drills Tagging practice Warm-up Learning basic throws Falling techniques Basic holds
July	W3	**Athletics** **Football** **Judo**	Middle Distance Running, Sprints Ball Control, Team Tactics, Mini-Matches Basic Throws, Holds, Falling Techniques	Warm-up Sprint drills Middle distance Relay races Warm-up Ball control drills Team play Mini-matches Running drills Tagging practice Warm-up Learning basic throws

				Falling techniques Basic holds
August	W1	**Athletics** **Football** **Judo**	Middle Distance Running, Sprints Ball Control, Team Tactics, Mini-Matches Basic Throws, Holds, Falling Techniques	Warm-up Sprint drills Middle distance Relay races Warm-up Ball control drills Team play Mini-matches Running drills Tagging practice Warm-up Learning basic throws Falling techniques Basic holds
August	W2	**Athletics** **Football** **Judo**	Middle Distance Running, Sprints Ball Control, Team Tactics, Mini-Matches Basic Throws, Holds, Falling Techniques	Warm-up Sprint drills Middle distance Relay races Warm-up Ball control drills Team play Mini-matches Running drills Tagging practice Warm-up Learning basic throws Falling techniques Basic holds

Subject: SPORTS & GAMES

Month	Week	Topics	Sub Topics	Activities
August	W3	**Athletics** **Football** **Judo**	Middle Distance Running, Sprints Ball Control, Team Tactics, Mini-Matches Basic Throws, Holds, Falling Techniques	Warm-up Sprint drills Middle distance Relay races Warm-up Ball control drills Team play Mini-matches Running drills Tagging practice Warm-up Learning basic throws Falling techniques Basic holds
August	W4	**Athletics** **Football** **Judo**	Middle Distance Running, Sprints Ball Control, Team Tactics, Mini-Matches Basic Throws, Holds, Falling Techniques	Warm-up Sprint drills Middle distance Relay races Warm-up Ball control drills Team play Mini-matches Running drills Tagging practice Warm-up Learning basic throws Falling techniques Basic holds
September	W1	**Volleyball** **Kho-Kho** **Judo**	Passing, Serving, Teamwork Running, Tagging, Team Coordination Basic Throws, Holds, Falling Techniques	Warm-up Passing drills Serving practice - Teamwork activities Warm-up Kho-Kho basic training Running drills Tagging practice Warm-up Learning basic throws Falling techniques Basic holds

September	W2	Half Yearly Examination Starts		
September	W3	Half Yearly Examination		
September	W4	Half Yearly Examination Ends		

Subject: SPORTS & GAMES

Month	Week	Topics	Sub Topics	Activities
October	W1	Dussehra Break		
October	W2	**Volleyball** **Kho-Kho** **Judo**	Passing, Serving, Teamwork Running, Tagging, Team Coordination Basic Throws, Holds, Falling Techniques	Warm-up Passing drills Serving practice - Teamwork activities Warm-up Kho-Kho basic training Running drills Tagging practice Warm-up Learning basic throws Falling techniques Basic holds
October	W3	**Volleyball** **Kho-Kho** **Judo**	Passing, Serving, Teamwork Running, Tagging, Team Coordination Basic Throws, Holds, Falling Techniques	Warm-up Passing drills Serving practice - Teamwork activities Warm-up Kho-Kho basic training Running drills Tagging practice Warm-up Learning basic throws Falling techniques Basic holds

October	W4	Deepawali Break		

Subject: SPORTS & GAMES

Month	Week	Topics	Sub Topics	Activities
Nonmember	W1	**Volleyball** **Football** **Basketball**	Passing, Serving, Teamwork Ball Control, Team Tactics, Mini-Matches Passing, Shooting, Dribbling, Defensive Drills	Warm-up Passing drills Serving practice - Teamwork activities Warm-up Ball control drills Team play Mini-matches Warm-up Dribbling drills Passing and shooting -Defensive positioning
Nonmember	W2	**Free Hand Exercise** **Football** **Basketball**	Stretching, Flexibility, Mobility Ball Control, Team Tactics, Mini-Matches Passing, Shooting, Dribbling, Defensive Drills	Warm-up Dynamic stretching - Flexibility drills Cool down Warm-up Ball control drills Team play Mini-matches Warm-up Dribbling drills Passing and shooting -Defensive positioning
Nonmember	W3	SOPRTS DAY		

Nonmember	W4	**Volleyball** **Football** **Basketball**	Passing, Serving, Teamwork Ball Control, Team Tactics, Mini-Matches Passing, Shooting, Dribbling, Defensive Drills	Warm-up Passing drills Serving practice - Teamwork activities Warm-up Ball control drills Team play Mini-matches Warm-up Dribbling drills Passing and shooting -Defensive positioning

Subject: SPORTS & GAMES

Month	Week	Topics	Sub Topics	Activities
December	W1	Recreation game PT2 EXAMINATION STARTS		
December	W2	PT2 EXAMINATION ENDS		
December	W3	**Volleyball** **Football** **Basketball**	Passing, Serving, Teamwork Ball Control, Team Tactics, Mini-Matches Passing, Shooting, Dribbling, Defensive Drills	Warm-up Passing drills Serving practice - Teamwork activities Warm-up Ball control drills Team play Mini-matches Warm-up Dribbling drills Passing and shooting -Defensive positioning
December	W4	**Volleyball** **Football** **Basketball**	Passing, Serving, Teamwork Ball Control, Team Tactics, Mini-Matches Passing, Shooting, Dribbling, Defensive Drills	Warm-up Passing drills Serving practice - Teamwork activities Warm-up Ball control drills Team play Mini-matches Warm-up Dribbling drills Passing and shooting -Defensive positioning

Subject: SPORTS & GAMES

Month	Week	Topics	Sub Topics	Activities
January	W1	Winter Break		
January	W2	**Volleyball** **Football** **Basketball**	Passing, Serving, Teamwork Ball Control, Team Tactics, Mini-Matches Passing, Shooting, Dribbling, Defensive Drills	Warm-up Passing drills Serving practice - Teamwork activities Warm-up Ball control drills Team play Mini-matches Warm-up Dribbling drills Passing and shooting -Defensive positioning
January	W3	**Volleyball** **Football** **Basketball**	Passing, Serving, Teamwork Ball Control, Team Tactics, Mini-Matches Passing, Shooting, Dribbling, Defensive Drills	Warm-up Passing drills Serving practice - Teamwork activities Warm-up Ball control drills Team play Mini-matches Warm-up Dribbling drills Passing and shooting -Defensive positioning

January	W4	**Volleyball** **Football** **Basketball**	Passing, Serving, Teamwork Ball Control, Team Tactics, Mini-Matches Passing, Shooting, Dribbling, Defensive Drills	Warm-up Passing drills Serving practice - Teamwork activities Warm-up Ball control drills Team play Mini-matches Warm-up Dribbling drills Passing and shooting -Defensive positioning

Subject: SPORTS & GAMES

Month	Week	Topics	Sub Topics	Activities
February	W1	**Volleyball** **Football** **Basketball**	Passing, Serving, Teamwork Ball Control, Team Tactics, Mini-Matches Passing, Shooting, Dribbling, Defensive Drills	Warm-up Passing drills Serving practice - Teamwork activities Warm-up Ball control drills Team play Mini-matches Warm-up Dribbling drills Passing and shooting -Defensive positioning
February	W2	EXAMINATIN		
February	W3	EXAMINATIN		

February	W4	EXAMINATIN		

Subject: SPORTS & GAMES

Month	Week	Topics	Sub Topics	Activities
March	W1	Practical & Annual Examination Starts		
	W2	Practical & Annual Examination		
	W3	Practical & Annual Examination Ends		
	W4			

Examination Wise Syllabus Breakup 2025-26

Examination	Chapter No./Chapter Name
Term-1/Half Yearly Exam	1. HIGHT & WEIGHT 2. PHYSICAL FITNESS TEST 3. SKILL TEST
Term-2/Annual Exam	1. HIGHT & WEIGHT 2. PHYSICAL FITNESS TEST 3. SKILL TEST

Chinmaya Vidyalaya NTPC Unchahar

ANNUAL SYLLABUS BREAK UP

SESSION: 2025-2026

CLASS: XII

Subject :CHEMISTRY

Subject: Chemistry

Month	Week	Topics	Sub Topics	Activities
April	W1	SOLUTIONS	Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions.	**Volumetric analysis:** Determination of concentration/ molarity and strength of $KMnO_4$ solution by titrating it against a standard solution of: Ferrous Ammonium Sulphate (M/20) (Students will be required to prepare standard solutions by weighing themselves).
April	W2		Raoult's law, colligative properties - relative lowering of vapor pressure, elevation of boiling point, depression of freezing point.	**Volumetric analysis:** Determination of concentration/ molarity and strength of $KMnO_4$ solution by titrating it against a standard solution of: Ferrous Ammonium Sulphate (M/25)
April	W3		Osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass, Van't Hoff factor.	Volumetric analysis Determination of concentration/ molarity and strength of $KMnO_4$ solution by titrating it against a standard solution of Oxalic acid, (M/50) (Students will be required to prepare standard solutions by weighing themselves).
April	W4	Electrochemistry	Redox reactions, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells.	Volumetric analysis Determination of concentration/ molarity and strength of $KMnO_4$ solution by titrating it against a standard solution of Oxalic acid, (M/20) (Students will be required to prepare standard solutions by weighing themselves).
April	W5		Relation between Gibbs energy change and EMF of a cell, conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration.	

Subject: Chemistry

Month	Week	Topics	Sub Topics	Activities
May	W1	Electrochemistry	Kohlrausch's Law, electrolysis and law of electrolysis (elementary idea), dry cell- electrolytic cells and Galvanic cells, lead accumulator, fuel cells, corrosion.	Salt analysis (Qualitative analysis) Determination of one cation and one anion in a given salt. Zero group cation (NH_4Cl)
May	W2	Chemical Kinetics	Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant.	
May	W3		Integrated rate equations and half-life (only for zero and first order 10 reactions), concept of collision theory (elementary idea, no mathematical treatment), activation energy, Arrhenius equation.	
May	W4 & W5	SUMMER BREAK		

June	W1, W2 & W3	SUMMER BREAK		
June	W4	Revision		

Subject: Chemistry

Month	Week	Topics	Sub Topics	Activities
July	W1	**d and f Block Elements**	General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals – metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property.	Salt analysis (Qualitative analysis) Determination of one cation and one anion in a given salt. First group cation $Pb(CH_3COO)_2$
July	W2	**d and f Block Elements**	Magnetic properties, interstitial compounds, alloy formation, preparation and properties of $K_2Cr_2O_7$ and $KMnO_4$. **Lanthanides -** Electronic configuration, oxidation states, chemical reactivity and lanthanide contraction and its consequences. **Actinides -** Electronic configuration, oxidation states and comparison with lanthanides	Salt analysis (Qualitative analysis) Determination of one cation and one anion in a given salt. Second group cation $CuSO_4$

July	W3	**Coordination Compounds**	Coordination compounds - Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds.	Salt analysis (Qualitative analysis) Determination of one cation and one anion in a given salt. Third group cation $Al_2(SO_4)_3$,
July	W4	**Coordination Compounds**	Bonding, Werner's theory, VBT, and CFT, Structure and stereoisomerism.	Salt analysis (Qualitative analysis) Determination of one cation and one anion in a given salt. Third group cation $FeCl_3$
	W5	**Coordination Compounds**	Importance of coordination compounds (in qualitative analysis, extraction of metals and biological system).	

Subject: Chemistry

Month	Week	Topics	Sub Topics	Activities
August	W1	**Haloalkanes and Haloarenes**	**Haloalkanes:** Nomenclature, nature of C–X bond, physical and chemical properties, optical rotation mechanism of substitution reactions.	Salt analysis (Qualitative analysis) Determination of one cation and one anion in a given salt. Fourth group cation $ZnCO_3$
August	W2	**Haloalkanes and Haloarenes**	**Haloarenes:** Nature of C–X bond, substitution reactions (Directive influence of halogen in monosubstituted compounds only).	Salt analysis (Qualitative analysis) Determination of one cation and one anion in a given salt. Fifth group cation $BaCl_2$
August	W3	**Haloalkanes and Haloarenes**	Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.	Salt analysis (Qualitative analysis) Determination of one cation and one anion in a given salt. Sixth group cation $MgSO_4$
August	W4	**Alcohols, Phenols and Ethers**	**Alcohols:** Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only), identification of primary, secondary and tertiary alcohols, mechanism of dehydration, uses with special reference to methanol and ethanol.	Tests for the functional groups present in organic compounds: Unsaturation.

August	W5	**Alcohols, Phenols and Ethers**	**Phenols:** Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol,	

Subject: Chemistry

Month	Week	Topics	Sub Topics	Activities
September	W1	REVISION		
September	W2	HALF YEARLY EXAMINATION		
September	W3	HALF YEARLY EXAMINATION		
September	W4	**Alcohols, Phenols and Ethers**	**Phenols:** Electrophilic substitution reactions, uses of phenols.	Tests for the functional groups present in organic compounds: Alcohals
September	W5	**Alcohols, Phenols and Ethers**	**Ethers:** Nomenclature, methods of preparation, physical and chemical properties, uses	

Subject: Chemistry

Month	Week	Topics	Sub Topics	Activities
October	W1	DUSSERA BREAK		
October	W2	**Aldehydes, Ketones and Carboxylic Acids**	**Aldehydes and Ketones:** Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties,	Tests for the functional groups present in organic compounds: Phenol
October	W3	**Aldehydes, Ketones and Carboxylic Acids**	**Aldehydes, Ketones:** Mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes, uses.	Tests for the functional groups present in organic compounds: Aldehyde & Ketone
October	W4	**Aldehydes, Ketones and Carboxylic Acids**	**Carboxylic Acids:** Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.	Tests for the functional groups present in organic compounds: Carboxylic Acid
October	W5	**Amines**	**Amines:** Nomenclature, classification, structure, methods of preparation.	

Subject: Chemistry

Month	Week	Topics	Sub Topics	Activities
November	W1	**Amines**	**Amines:** Physical and chemical properties, uses, identification of primary, secondary and tertiary amines. **Diazonium salts:** Preparation, chemical reactions and importance in synthetic organic chemistry.	Tests for the functional groups present in organic compounds: Amines
November	W2	**Biomolecules**	**Carbohydrates -** Classification (aldoses and ketoses), monosaccahrides (glucose and fructose), D-L configuration oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); Importance of carbohydrates.	Characteristic tests of carbohydrates, fats and proteins in pure samples and their detection in given foodstuffs.
November	W3	**Biomolecules**	**Proteins -** Elementary idea of - amino acids, peptide bond, polypeptides, proteins, structure of proteins - primary, secondary, tertiary structure and quaternary structures	Preparation of Inorganic Compounds Preparation of double salt of Ferrous Ammonium Sulphate or Potash Alum. Preparation of Potassium Ferric Oxalate.

			(qualitative idea only), denaturation of proteins; enzymes. Hormones - Elementary idea excluding structure. **Vitamins -** Classification and functions. **Nucleic Acids:** DNA and RNA.	
November	W4	REVISION		
November	W5	REVISION & PB1		

Subject: Chemistry

Month	Week	Topics	Sub Topics	Activities
December	W1	PB1		
December	W2	PB1		
December	W3	REVISION		
December	W4	REVISION		
December	W5	REVISION		

Subject: Chemistry

Month	Week	Topics	Sub Topics	Activities
January	W1	Winter Break		
January	W2	PB2		
January	W3	PB2		
January	W4	REVISION & BOARD PRACTICAL		
January	W5	REVISION & BOARD PRACTICAL		

Examination Wise Syllabus Breakup 2025-26

Examination	Chapter No./Chapter Name
PT-1	1. SOLUTIONS 2. ELECTROCHEMISTRY
Term-1/Half Yearly Exam	1. SOLUTIONS 2. ELECTROCHEMISTRY 3. CHEMICAL KINETICS 4. d AND f BLOCK ELEMENTS 5. COORDINATION COMPOUNDS 6. HALOALKANES AND HALOARENES
PB-1	1. SOLUTIONS 2. ELECTROCHEMISTRY 3. CHEMICAL KINETICS 4. d AND f BLOCK ELEMENTS 5. COORDINATION COMPOUNDS 6. HALOALKANES AND HALOARENES 7. ALCOHOLS, PHENOLS AND ETHERS 8. ALDEHYDES, KETONES AND CARBOXILIC ACID 9. AMINES
PB-2	1. SOLUTIONS 2. ELECTROCHEMISTRY 3. CHEMICAL KINETICS 4. d AND f BLOCK ELEMENTS 5. COORDINATION COMPOUNDS 6. HALOALKANES AND HALOARENES 7. ALCOHOLS, PHENOLS AND ETHERS 8. ALDEHYDES, KETONES AND CARBOXILIC ACID 9. AMINES

Chinmaya Vidyalaya NTPC Unchahar

ANNUAL SYLLABUS BREAK UP

SESSION: 2025-2026

CLASS: XII

Subject :Mathematics

Subject: Mathematics

Month	Week	Topics	Sub Topics	Activities
April	W1	Relations & Functions	Types of relations: reflexive, symmetric, transitive and equivalence relations.	
April	W2	Relations & Functions	One to one and onto functions.	To demonstrate a function which is not one-one but is onto.
April	W3	Relations & Functions	Exercise Problems & PYQ	
April	W4	Inverse Trigonometric Function	Definition, range, domain, principal value branch.	To draw the graph of $\sin^{-1} x$, using the graph of $\sin x$ and demonstrate the concept of mirror reflection (about the line $y = x$).
April	W5	Inverse Trigonometric Function	Graphs of inverse trigonometric functions. Exercise Problems & PYQ	

Subject: Mathematics

Month	Week	Topics	Sub Topics	Activities
May	W1	Matrices	Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. Non-commutativity of multiplication of matrices and existence of non zero matrices	
May	W2	Matrices	Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries).	
May	W3			
May	W4			
May	W5			

Subject: Mathematics

Month	Week	Topics	Sub Topics	Activities
June	W1			
June	W2			
June	W3			
June	W4	Determinants	Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix.	
June	W5	Determinants	Consistency, inconsistency and number of solutions of system of linear equations by examples, solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.	

Subject: Mathematics

Month	Week	Topics	Sub Topics	Activities
July	W1	Continuity and Differentiability	Continuity and differentiability, chain rule, derivative of composite functions, derivatives of inverse trigonometric functions like $\sin^{-1} x$, $\cos^{-1} x$ and $\tan^{-1} x$,	
July	W2	Continuity and Differentiability	derivative of implicit functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation,	
July	W3	Continuity and Differentiability	derivative of functions expressed in parametric forms. Second order derivatives.	
July	W4	Application of Derivatives	Applications of derivatives: rate of change of quantities, increasing/decreasing functions, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool)	To construct an open box of maximum volume from a given rectangular sheet by cutting equal squares from each corner.
July	W5	Application of Derivatives	Simple problems (that illustrate basic principles and understanding of the subject as well as real- life situations).	

Subject: Mathematics

Month	Week	Topics	Sub Topics	Activities
August	W1	Integrals	Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts,	
August	W2	Integrals	Evaluation of simple integrals of the following types and problems based on them.	
August	W3	Integrals	Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals.	
August	W4	Application of Integrals	Applications in finding the area under simple curves, especially lines, circles/ parabolas/ellipses (in standard form only)	
August	W5	Application of Integrals	Exercise Problems & PYQ	

Subject: Mathematics

Month	Week	Topics	Sub Topics	Activities
September	W1	Revision for HYE		
September	W2	Half yearly Examination		
September	W3	Half yearly Examination		
September	W4	Differential Equations	Definition, order and degree, general and particular solutions of a differential equation. Solution of differential equations by method of separation of variables, solutions of homogeneous differential equations of first order and first degree.	
September	W5	Differential Equations	Solutions of linear differential equation Exercise Problems & PYQ	

Subject: Mathematics

Month	Week	Topics	Sub Topics	Activities
October	W1	Vectors	Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of a vector. Types of vectors position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio.	
October	W2	Vectors	Definition, Geometrical Interpretation, properties and application of scalar (dot) product of vectors, vector (cross) product of vectors.	To verify that angle in a semi-circle is a right angle, using vector method.
October	W3	Three Dimensional Geometry	Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, skew lines	
October	W4	Three Dimensional Geometry	shortest distance between two lines. Angle between two lines.	
October	W5	Three Dimensional Geometry	Exercise Problems & PYQ	

Subject: Mathematics

Month	Week	Topics	Sub Topics	Activities
November	W1	Linear Programming Problems	Introduction, related terminology such as constraints, objective function, optimization, graphical method of solution for problems in two variables, feasible and infeasible regions (bounded or unbounded), feasible and infeasible solutions, optimal feasible solutions	
November	W2	Probability	Conditional probability, multiplication theorem on probability	
November	W3	Probability	independent events, total probability, Bayes' theorem.	To explain the computation of conditional probability of a given event A, when event B has already occurred, through an example of throwing a pair of dice.
Novembe r	W4	Probability	Exercise Problems & PYQ	
November	W5	Revision	Chapter wise PYQ	

Subject: Mathematics

Month	Week	Topics	Sub Topics	Activities
December	W1	Statistics PB-1 Examination		
December	W2			
December	W3			
December	W4			
December	W5	Annual Day Winter Break Starts		

Subject: Mathematics

Month	Week	Topics	Sub Topics	Activities
January	W1	Winter Break		
January	W2	Probability	probability, connections with other theories of earlier classes. Probability of an event,	
January	W3	Probability	probability of 'not', 'and' and 'or' events.	
January	W4	Revision for Annual Examination		
January	W5	Revision for Annual Examination		

Subject: Mathematics

Month	Week	Topics	Sub Topics	Activities
February	W1	Revision for Annual Examination		
February	W2	Revision for Annual Examination		
February	W3	Revision for Annual Examination		
February	W4	Revision for Annual Examination		

Subject: Mathematics

Month	Week	Topics	Sub Topics	Activities
March	W1	Annual Examination		
March	W2	Annual Examination		
March	W3	Annual Examination		
	W4			
	W5			

Examination Wise Syllabus Breakup 2025-26

Examination	Chapter No./Chapter Name
PT-1	1.Relations and Functions 2. Inverse Trigonometric Functions 3. Matrices
Term-1/Half Yearly Exam	1. Relations and Functions 2. Inverse Trigonometric Functions 3. Matrices 4. Determinants 4. Continuity & Differentiability 5. Application of Derivatives 7. Integrals
PB-1	Complete Syllabus
PB-2	Complete Syllabus

Chinmaya Vidyalaya NTPC Unchahar

ANNUAL SYLLABUS BREAK UP

SESSION: 2025-2026

CLASS: XII

Subject :Biology

Subject: Biology

Month	Week	Topics	Sub Topics	Activities
April	W1	1. SEXUAL REPRODUCTION IN FLOWERING PLANTS	Flower structure; development of male gametophyte	
April	W2		Flower structure; development of female gametophyte.	
April	W3		Pollination - types, agencies and examples; out breeding devices; pollen-pistil interaction;	
April	W4		double fertilization; post fertilization events - development of endosperm and embryo, development of seed and formation of fruit;	**A: Core Experiments (1 to 5)** 1. Prepare a temporary mount to observe pollen germination.
April	W5		Special modes- apomixis, parthenocarpy, polyembryony; Significance of seed dispersal and fruit formation.	

Subject: Biology				
Month	**Week**	**Topics**	**Sub Topics**	**Activities**
May	W1	2. HUMAN REPRODUCTION	Male and female reproductive systems; microscopic anatomy of testis and ovary; gametogenesis - spermatogenesis and oogenesis, formation, implantation.	2. Study the plant population density by quadrat method.
May	W2		Pregnancy and placenta formation (elementary idea); parturition (elementary idea); lactation (elementary idea).	
May	W3	3. REPRODUCTIVE HEALTH	Need for reproductive health and prevention of Sexually Transmitted Diseases (STDs); birth control - need and methods, contraception and	

			medical termination of pregnancy (MTP); amniocentesis; infertility and assisted reproductive technologies – IVF, ZIFT, GIFT (elementary idea for general awareness).	
May	W4	SUMMER BREAK	-	-
June	W4	4. PRINCIPLES OF INHERITANCE AND VARIATION	Mendelian inheritance; deviations from Mendelism.	

Subject: Biology

Month	Week	Topics	Sub Topics	Activities
July	W1	4. PRINCIPLES OF INHERITANCE AND VARIATION (Continued….)	incomplete dominance, co-dominance, multiple alleles and inheritance of blood groups, pleiotropy; elementary idea of polygenic inheritance;	3.Study the plant population frequency by quadrat method.
July	W2		Chromosome theory of inheritance; chromosomes and genes; Sex determination - in humans, birds and honey bee; linkage and crossing over; sex linked inheritance -	4.Prepare a temporary mount of onion root tip to study mitosis.
	W3		haemophilia, colour blindness; Mendelian disorders in humans - thalassemia; chromosomal	

			disorders in humans; Down's syndrome, Turner's and Klinefelter's syndromes.	
July	W4	5. MOLECULAR BASIS OF INHERITANCE	Search for genetic material and DNA as genetic material; Structure of DNA and RNA	
July	W5		DNA packaging; DNA replication; Central Dogma; transcription	

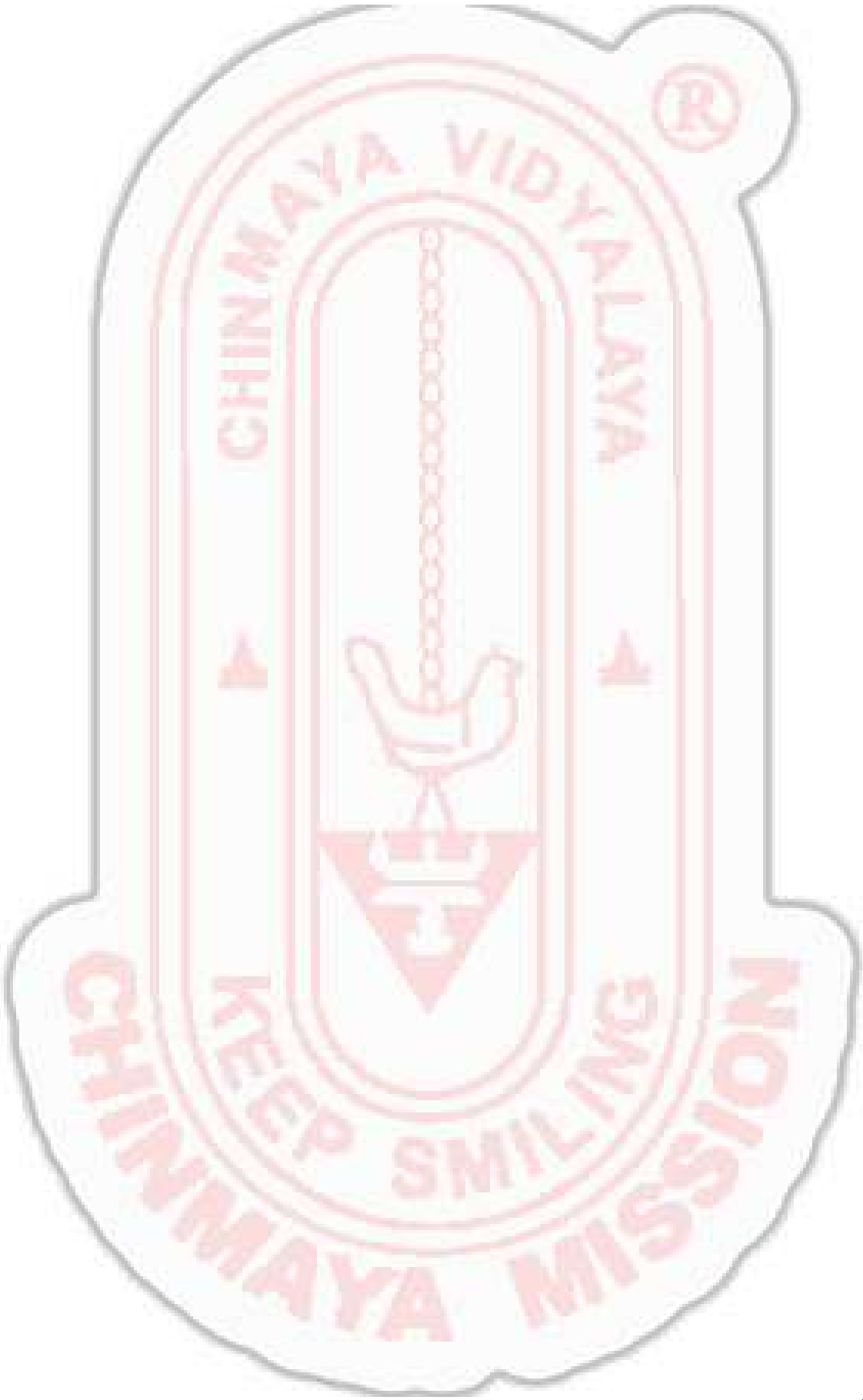
Subject: Biology

Month	Week	Topics	Sub Topics	Activities
August	W1	5. MOLECULAR BASIS OF INHERITANCE (Continued..)	Genetic code, translation; gene 8 expression and regulation - lac operon; Genome, Human and rice genome projects; DNA fingerprinting.	5. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.
August	W2	6.EVOLUTION	Origin of life; biological evolution and evidences for biological evolution (paleontology, comparative anatomy, embryology and molecular evidences); Darwin's contribution, modern synthetic theory of evolution; mechanism of evolution - variation (mutation and recombination) and natural selection with examples, types of natural selection; Gene flow and genetic drift; Hardy - Weinberg's principle; adaptive	

			radiation; human evolution.	
August	W3	7. HUMAN HEALTH AND DISEASE	Pathogens; parasites causing human diseases (malaria, dengue,	**B. Spotting (1 to 11)** 1. Flowers adapted to pollination by different agencies (wind, insects, birds).
August	W4		chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control.	
August	W5		Basic concepts of immunology - vaccines; cancer, HIV and AIDS; Adolescence - drug and alcohol abuse.	2. Pollen germination on stigma through a permanent slide or scanning electron micrograph.

Subject: Biology

Month	Week	Topics	Sub Topics	Activities
September	W1	8. MICROBES IN HUMAN WELFARE	Microbes in food processing, industrial production, sewage treatment.	3. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice).
September	W2		HALF YEARLY EXAMINATION	
September	W3		HALF YEARLY EXAMINATION	
September	W4		Energy generation and microbes as bio-control agents and bio-fertilizers. Antibiotics; production and judicious use	4. Meiosis in onion bud cell or grasshopper testis through permanent slides.
September	W5	9.BIOTECHNOLOGY: PRINCIPLES AND PROCESSES	Genetic Engineering (Recombinant DNA Technology).	5. T.S. of blastula through permanent slides (Mammalian).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Subject: Biology

Month	Week	Topics	Sub Topics	Activities
October	W1	DUSSEHRA BREAK		6. Mendelian inheritance using seeds of different colour/sizes of any plant.
October	W2	10.BIOTECHNOLOGY AND ITS APPLICATIONS	Application of biotechnology in health and agriculture: Human insulin and vaccine production, stem cell technology, gene therapy,	7. Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness.
October	W3		Genetically modified organisms - Bt crops; transgenic animals; biosafety issues, biopiracy and patents.	8. Controlled pollination - emasculation, tagging and bagging.
October	W4	11.ORGANISMS AND POPULATIONS	Population interactions - mutualism, competition, predation, parasitism;	
October	W5		Population attributes - growth, birth rate and death rate, age distribution.	

Subject: Biology

Month	Week	Topics	Sub Topics	Activities
November	W1	12. ECOSYSTEM	Ecosystems: Patterns, components; productivity and decomposition; energy flow;	9. Common disease causing organisms like Ascaris, Entamoeba, Plasmodium, any fungus causing ringworm through permanent slides, models or virtual images or specimens. Comment on symptoms of diseases that they cause.
November	W2	13. BIODIVERSITY AND CONSERVATION	Pyramids of number, biomass, energy. Biodiversity- Concept, patterns, importance; loss of biodiversity; biodiversity conservation; hotspots, endangered organisms, extinction, Red Data Book,	10. Models specimen showing symbolic association in root nodules of leguminous plants, Cuscuta on host, lichens.
November	W3		Sacred Groves, biosphere reserves, national parks, wildlife, sanctuaries and Ramsar sites.	11. Flash cards models showing examples of homologous and analogous organs.

November	W4	REVISION & PRE – BOARD 1 EXAMINATION		
November	W5			

Subject: Biology

Month	Week	Topics	Sub Topics	Activities
December	W1			
	W2			
	W3			
	W4			
	W5			

Subject: Biology

Month	Week	Topics	Sub Topics	Activities
January	W1	REVISION & PRE –BOARD 2 EXAMINATION		
	W2			
	W3			
	W4			
	W5			

Subject: Biology

Month	Week	Topics	Sub Topics	Activities
February	W1	BOARD(AISSCE-2026) EXAMINATION		
	W2			
	W3			
	W4			
	W5			

Subject: Biology

Month	Week	Topics	Sub Topics	Activities
March	W1			
	W2			
	W3			
	W4			
	W5			

Subject: Biology

Month	Week	Topics	Sub Topics	Activities
	W1			
	W2			
	W3			
	W4			
	W5			

Examination Wise Syllabus Breakup 2025-26

Examination	Chapter No./Chapter Name
Pre-Mid-Term	Chapter-1, 2 & 3
HY/Mid-Term	Chapter-1, 2, 3, 4, 5 & 6
PB 1	Unit-VI to Unit-X (Chapter-1 to Chapter-13)
PB 2	Unit-VI to Unit-X (Chapter-1 to Chapter-13)

Chinmaya Vidyalaya NTPC Unchahar

ANNUAL SYLLABUS BREAK UP

SESSION: 2025-2026

CLASS: XII

Subject : PHYSICS

Subject: Physics

Month	Week	Topics	Sub Topics	Activities
April	W1	**Chapter–1: Electric Charges and Fields,**	Electric charges, Conservation of charge, Coulomb's law-force between two- point charges, forces between multiple charges; superposition principle and continuous charge distribution.	Practice MCQ, Assertion Reasoning graphical and content based questions on above topics.
April	W2	**Electric field and Flux**	, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field.	Practice of Content based questions Assessment reasoning questions Derivations, Statement of laws and Diagrams Time bound practice of solving Question papers.
April	W3	**Electric Flux, Electric potential**	Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside).	
April	W4	Electrostatic Potential and Capacitance	Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two-point charges and of electric dipole in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarization, capacitors and capacitance,	

			combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formulae only).	
April	W5	**Chapter–3: Current Electricity**	Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, V-I characteristics (linear and non-linear), electrical energy and power, electrical	

Subject: Physics

Month	Week	Topics	Sub Topics	Activities
May	W1	**Chapter–3: Current Electricity**	resistivity and conductivity, temperature dependence of resistance, Internal resistance of a cell, potential difference .	assemble a household circuit comprising three bulbs, three (on/off) switches,afuseandapower source. 2. To assemble the components of a givenelectricalcircuit. EXPERIMENTS SECTION A 1. To determine resistivity of two/threewiresbyplotting a graph for potential difference versuscurrent.

May	W2	**Chapter–3: Current Electricity**	emf of a cell, combination of cells in series and in parallel, Kirchhoff's rules, Wheatstone bridge.	EXPERIMENTS SECTION A 1. To determine resistivity of two/threewiresbyplotting a graph for potential difference versuscurrent.
May	W3	**Chapter–3: Current Electricity**	emf of a cell, combination of cells in series and in parallel, Kirchhoff's rules, Wheatstone bridge.	
May	W4	**SUMMER**	**VACATION**	
May	W5			

Subject: Physics

Month	Week	Topics	Sub Topics	Activities
JUNE	W1			
JUNE	W2			
JUNE	W3			
JUNE	W4	**Chapter–4: Moving Charges and Magnetism**	Concept of magnetic field, Oersted's experiment.Biot - Savart law and its application to current carrying circular loop..	
JUNE	W5	**Chapter–4: Moving Charges and Magnetism**	Concept of magnetic field, Oersted's experiment.Biot - Savart law and its application to current carrying circular loop..	

Subject: Physics

Month	Week	Topics	Sub Topics	Activities
JULY	W1	**Chapter–4: Moving Charges and Magnetism**	Ampere's law and its applications to infinitely long straight wire. Straight solenoid (only qualitative treatment), force on a moving charge in uniform magnetic and electric fields.	To verify the laws of combination (series) of resistances using a metre bridge..
JULY	W2	**Chapter–4: Moving Charges and Magnetism**	Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-definition of ampere,	To verify the laws of combination (series) of resistances using a metre bridge..
JULY	W3	**Chapter–4: Moving Charges and Magnetism**	torque experienced by a current loop in uniform magnetic field; Current loop as a magnetic dipole and its magnetic dipole moment, moving coil galvanometer- its current sensitivity and conversion to ammeter and voltmeter	ACTIVITIES SECTION A 3. To study the variation in potential drop with length of a wire for a steady current
JULY	W4	**Chapter–5: Magnetism and Matter**	Bar magnet, bar magnet as an equivalent solenoid (qualitative treatment only), magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis (qualitative treatment only), torque on a magnetic dipole (bar magnet) in a uniform magnetic field (qualitative treatment only), magnetic field lines.	determine resistance of a galvanometer by half-deflection method and to find its figure of merit.
JULY	W5	**Chapter–5: Magnetism and Matter**	Magnetic properties of materials- Para-, dia- and ferro - magnetic substances with examples, Magnetization of materials, effect of temperature on magnetic properties.	

Subject: Physics

Month	Week	Topics	Sub Topics	Activities
AUGUST	W1	**Chapter–6: Electromagnetic Induction**	Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's Law, Self and mutual induction.	
AUGUST	W2	**Chapter–7: Alternating Current**	Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance;	
AUGUST	W3	**Chapter–7: Alternating Current**	LCR series circuit (phasors only), resonance, power in AC circuits, power factor, wattless current. AC generator, Transformer.	
AUGUST	W4	**Chapter–8: Electromagnetic Waves**	Basic idea of displacement current, Electromagnetic waves, their characteristics, their transverse nature (qualitative idea only).	
AUGUST	W5	**Chapter–8: Electromagnetic Waves**	Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.	

Subject: Physics

Month	Week	Topics	Sub Topics	Activities
SEPTEMBER	W1	**Ray Optics:**	Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and optical fibers,.	1. To study refraction of light through glassslab. EXPERIMENTS SECTIONB 1. To find the value of v for different values of u in case of a concave mirror
SEPTEMBER	W2	**Ray Optics:**	refraction at spherical surfaces, lenses, thin lens formula, lens maker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction of light through a prism	1. To study refraction of light through glassslab. EXPERIMENTS SECTIONB 1. To find the value of v for different values of u in case of a concave mirror
SEPTEMBER	W3	**Ray Optics:**	**Optical instruments:** Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.	2. To find the focal length of a convex lens by plotting graphs between u and v or between 1/u and1/v. 3. To find focal length of convex mirror by using a convexlens.
SEPTEMBER	W4	**Wave optics:**	Wave front and Huygen's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygen's principle. Interference, Young's double slit experiment and expression for fringe width (No derivation final expression only),	Conceptual, graphical questions, Ray diagrams and numerical on above topics • Practice Assertion Reasoning and content based Questions
SEPTEMBER	W5	**Wave optics:**	coherent sources and sustained interference of light, diffraction due to a single slit, width of central maxima (qualitative treatment only).	

Subject: English

Month	Week	Topics	Sub Topics	Activities
OCT	W1	**Chapter–11: Dual Nature of Matter AND radiation,**	Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light. Experimental study of photoelectric effect,Matter waves-wave nature of particles, de-Broglie relation.	
OCT	W2	**Chapter–12: Atoms**	Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model of hydrogen atom,	
OCT	W3	**Chapter–12: Atoms**	. Expression for radius of nth possible orbit, velocity and energy of electron in nth orbit, hydrogen line spectra (qualitative treatment only).	
OCT	W4	**Chapter–13: Nuclei**	Composition and size of nucleus, nuclear force,Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion	
OCT	W5	**Chapter–13: Nuclei**	binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion	

Subject: Physics

Month	Week	Topics	Sub Topics	Activities
NOV	W1	**Chapter–14: Semiconductor Electronics: Materials, Devices and Simple Circuits**	Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Intrinsic and extrinsic semiconductors- p and n type,	
NOV	W2	**Chapter–14: Semiconductor Electronics: Materials, Devices and Simple Circuits**	p-n junction Semiconductor diode - I-V characteristics in forward and reverse bias, application of junction diode -diode as a rectifier.	
NOV	W3	PRACTICE OF SAMPLE PAPER/ PREVIOUS YEAR PAPERS		
NOV	W4	PRACTICE OF SAMPLE PAPER/ PREVIOUS YEAR PAPERS		
NOV	W5	PRACTICE OF SAMPLE PAPER/ PREVIOUS YEAR PAPERS		

Subject: Physics

Month	Week	Topics	Sub Topics	Activities
DEC	W1	PRACTICE OF M CQ		
DEC	W2	PRACTICE OF CASE STUDY QUESTIONS		
DEC	W3	PRACTICE OF M CQ		
DEC	W4	PRACTICE OF CASE STUDY QUESTIONS		
DEC	W5	PRACTICE OF M CQ		

Subject: Physics				
Month	**Week**	**Topics**	**Sub Topics**	**Activities**
JAN	W1	PRACTICE OF M CQ		
JAN	W2	PRACTICE OF M CQ		
JAN	W3	PRACTICE OF CASE STUDY QUESTIONS		
JAN	W4	PRACTICE OF CASE STUDY QUESTIONS		
JAN	W5	PRACTICE OF SAMPLE PAPER/ PREVIOUS YEAR PAPERS		

Subject: Physics

Month	Week	Topics	Sub Topics	Activities
FEB	W1	REVISION		
FEB	W2	REVISION		
FEB	W3	ANNUAL EXAM		
FEB	W4	BOARD EXAM-2025-26		
FEB	W5			

Examination Wise Syllabus Breakup 2025-26

Examination	Chapter No./Chapter Name
PT-1	ELECTROSTATICS
Term-1/Half Yearly Exam	Chapter–1: Electric Charges and Fields Chapter–2: Electrostatic Potential and Capacitance Chapter–3: Current Electricity Chapter–4: Moving Charges and Magnetism Chapter–5: Magnetism and Matter
PT-2	Chapter–8: Electromagnetic Waves Chapter–9: Ray Optics and Optical Instruments
Term-2/Annual Exam	Chapter–1: Electric Charges and Fields Chapter–2: Electrostatic Potential and Capacitance Chapter–3: Current Electricity Chapter–4: Moving Charges and Magnetism Chapter–5: Magnetism and Matter Chapter–6: Electromagnetic Induction Chapter–7: Alternating Current Chapter–8: Electromagnetic Waves Chapter–9: Ray Optics and Optical Instruments Chapter–10: Wave Optics Chapter–11: Dual Nature of Radiation and Matter Chapter–12: Atoms Chapter–13: Nuclei Chapter–14: Semiconductor