

# NAVODAYA VIDYALAYA SAMITI



**Split-up of Syllabus for Class VII to XII**

**Session: 2024-25**

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**SPLIT UP OF SYLLABUS  
CLASS VII**

NAVODAYA VIDYALAYA SAMITI

CLASS: VII Subject: English

S. No.	Sections	Marks allotted
1	Section A - Reading	15 Marks
2	Section B - Writing	15 Marks
3	Section C - Grammar	10 Marks
4	Section D - Literature	40 Marks
	<b>Total Marks</b>	<b>80 Marks</b>
	Internal Assessment	20 Marks
	<b>Grand Total</b>	<b>100 Marks</b>

Month	No. of days	No of Periods	Main topics and Sub-topics to be covered	Grammar activities / Composition	Activities/Projects/Practical Experiments to be held/ Specific Assessment Tool(s) (Suggested)
April 2024	21	24	<b>Prose</b> 1. Three Questions  <b>Poetry</b> 1. The Squirrel 2. The Rebel  <b>Supplementary Reader</b> 1. The Tiny Teacher	1. Introduction to number and person of noun 2. Subject-Verb Agreement 3. Simple Paragraphs 4. Reading unseen Passages.	1. Art/Sports/Toy/Story based activities related to the topics/chapters 2. Imagining yourself as the character in the story and narrating. 3. Composing simple poems. Ex: Adding some similar lines to the poem The Rebel) 4. Making Fact files about elephants and ants.
<b>Periodic Written Test- 1/UT1 – From 26 April 2024 to 29 April 2024</b>					
July 2024	26	30	<b>Prose</b> 1. A Gift of Chappals  <b>Poetry</b> 3.The kite <b>Supplementary Reader</b> 2. Bringing up Kari	1. Framing Questions to the given statements. 2. Reported Speech 3. Formal Letters 4. Developing paragraphs with Hints	1. Dramatization/skit 2. Developing Visual input into story (Group Activity) 3. Conducting a survey of the households on the campus (Whether they prefer buying branded/not branded goods, why etc.) 4. Story telling Pedagogy (Bringing Up Kari)

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

Month	No. of days	No of Periods	Main topics and Sub-topics to be covered	Grammar activities / Composition	Activities/Projects/Practical Experiments to be held/ Specific Assessment Tool(s) (Suggested)
August 2024	22	24	<b>Prose</b> 3. Gopal & the Hilsa Fish <b>Poetry</b> 4.The Shed <b>Supplementary Reader</b> 4. Golu Grows a Nose	1. Active and Passive Voice 2. Conditional Clauses-1 3. Informal Letters 4. Re-ordering jumbled words into sentences and jumbled sentences into a paragraph/story	1. Just A Minute - A Moral Talk 2. Narrating a funny personal experience of cooking, learning a new skill etc. 3. Narrating a fictitious story about a haunted house. 4. Composing a Simple Poem on a Haunted House) 5. Story telling+ toy-based pedagogy (Golu Grows a Nose)
<b>Periodic Written Test 2 /UT2 – From 8 August 2024 to 10 August 2024</b>					
September 2024	17	20	<b>Prose</b> 4. The Ashes That Made Trees Bloom <b>Poem</b> 5. Chivvy <b>Supplementary Reader</b> 6. Chandni	1. Tenses and usages (simple Present and Simple past) 2. Notice Writing 3. Dialogue Writing 4. Phrasal verbs 5. Phonetic sounds and syllables	1. Role play 2. Interviewing friends 3. Reporting School Programs 4. Discussion on term Freedom, Dramatisation, paragraph writing, 5. Rearrange jumbled phrases
<b>TERM-I EXAM – From 23 September 2024 to 04 October 2024</b>					
OCTOBER 2024	17	20	<b>Prose</b> 5. Quality <b>Poetry</b> 6.Trees	1. Tenses (Continuous tenses and Present perfect) 2. Active and Passive Voice 3. Report Writing 4. Notice Writing	1. Vocabulary building activities. 2. Creative writing 3. Survey about a general topic. 4. Narrating Incidents. 5. What if trees could talk and walk
NOVEMBER 2024	20	24	<b>Supplementary Reader</b> 1. The Bear Story <b>Prose</b> 2. Expert Detectives	Framing different phrases with the same word, finding meanings of those phrases and using in sentences. (eg: tip the boat over, finger tips, tip a waiter etc.) Present Continuous and Past Continuous and contrast of simple present and present continuous tense	1. Adding more lines to the poem ‘Trees’ and composing similar poems 2. Playing the Role of Detective and finding details of a person with a number of questions.
<b>Periodic Written Test 3/ UT3 – From 12 December 2024 to 14 December 2024</b>					
December 2024	18	20	<b>Poetry</b> 7. Mystery of the Talking Fan <b>Supplementary Reader</b> 8. A Tiger in the House	1. Reporting requests, commands and questions 2. Story Writing 3. Describing visuals 4. Rearranging Jumbled words into sentence. 5. Revision of Grammar and composition	1. Presentation of Conversation between mechanic and fan and similar ones 2. Narrating the experience of visiting to a zoo.

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

Month	No. of days	No of Periods	Main topics and Sub-topics to be covered	Grammar activities / Composition	Activities/Projects/Practical Experiments to be held/ Specific Assessment Tool(s) (Suggested)
January 2025	14	16	<b>Prose</b> 7. The Invention of Vita - Wonk <b>Poetry</b> 8. Dad and the Cat and the Tree 9. Meadow Surprises	1. Modals 2. Combining two sentences into single sentences 3. Word forms with prefixes and suffixes 4. Formal letters: Letters of Complaints	1. Recipe writing dialogue completion 2. Speaking on observations of nature 3. Composing simple poems on the theme of nature 4. Speeches on fire safety and other disasters management.
<b>Periodic Written Test 4/ UT4 – From 06 February 2025 to 08 February 2025</b>					
February 2025	21	24	<b>Prose</b> <b>10. A Homage to our Brave Soldiers</b> <b>Poetry</b> 10. Garden Snake <b>Supplementary Reader</b> 10. An Alien Hand	1. Present Perfect and Past Perfect and Present Perfect Continuous tense. 2. Conditional Clauses-II 3. Adverbs 4. Word Puzzles	1. Paragraph writing on the army's work during peace time 2. Listening to Motivational Talks 3. Collecting information on Mars Missions and other space missions like Mangalyaan, Chandra Yaan 2 etc. and presenting in the class 4. Presenting various facts about Celestial bodies 5. preparation of a clause of kargil war (operation Vijay)
March 2025	17	20	<b>Revision for Term–II Exam</b>		
<b>TERM- II EXAM - From 17 March 2025 to 28 March 2025</b>					

Deleted Contents : (1) Fire : Friend and Foe (2) A bicycle in good repair (3) The story of cricket (4) The desert (5) The cop and the Anthem  
 5) I want something in a cage

**NOTE:**

- Relevant unit from work book may be taken up.
- Internal Assessment as per guidelines given by CBSE/ NCERT may be done
- Any changes in the syllabus, if announced by CBSE / NCERT during the academic year 2024-25 has to be incorporated in the split up syllabus by the concerned teacher and principal accordingly.
- Classroom transactions may be corresponding to NEP-2020.

नवोदय विद्यालय समिति

कक्षा : सातवीं

विषय : हिंदी (पाठ्यक्रम- अ)

क्रम सं.	अध्याय/ इकाई का नाम	उप भारांक	भारांक
01	अपठित गद्यांश /अपठित पद्यांश	1 x 5 = 5	10
02	व्याकरण - पाठ्यपुस्तक से पाठ्यक्रमानुसार	1 X 20 = 20	20
03	वसंत भाग-गद्य खंड 2 पुस्तक गद्यांश आधारित प्रश्न पुस्तक आधारित प्रश्न वसंत भाग-पद्य खंड 2 पुस्तक पद्यांश आधारित प्रश्न पुस्तक आधारित प्रश्न	1X5=5 2X5=10 1X5=5 2X5=10	30
04	वाल महाभारत गद्यांश आधारित वस्तुनिष्ठ प्रश्न पुस्तक आधारित वस्तुनिष्ठ प्रश्न पुस्तक आधारित लघु प्रश्न	1X5=5 1X3=3 2X2=4	12
05	रचनात्मक लेखन पत्रलेखन- अनुच्छेद लेखन	4X4 = 1 4X4 = 1	08
कुल अंक			80
आंतरिक मूल्यांकन			20
सामयिक आकलन		5	
बहुविध आकलन		5	
पोर्टफोलियो		5	
विषय समृद्धि क्रियाकलाप		5	
कुलयोग			100

आवधिक परीक्षा 1-	आवधिक परीक्षा 2 -	अर्द्धवार्षिक परीक्षा	आवधिक परीक्षा3 -	आवधिक परीक्षा 4	वार्षिक परीक्षा
40	40	80	40	40	80



**कक्षा : सातवीं**      **विषय : हिंदी (पाठ्यक्रम-अ)**

माह	कार्य दिवस	कालांश	विषयवस्तु / उपविषय	विषय संवर्धन क्रियाकलाप/ विषय विशिष्ट मूल्यांकन साधन
अप्रैल 2024	24	30	<p>वसंत भाग- 2 हम पंछी उन्मुक्त गगन के बाल-महाभारत- महाभारत कथा देवव्रत भीष्म प्रतिज्ञा अंबा और भीष्म व्याकरण - संज्ञा और सर्वनाम अपठित गद्यांश अपठित पद्यांश,</p>	<p>कविता संगीत आयोजन  महाभारत लघु नाटिका वर्तमान पर्यावरण पक्षियों के लिए घातक है- विषय पर कक्षा में परिचर्चा</p>
<b>आवधिक परीक्षा-1 (26 से 29 अप्रैल 2024)</b>				
जुलाई 2024	26	32	<p>वसंत भाग-2 हिमालय की बेटियां फूले कदम्ब - केवल पढ़ने के लिए कठपुतली बाल महाभारत- विदुर कुंती भीमकर्ण, द्रोणाचार्य व्याकरण- पर्यायवाची शब्द तत्सम-तद्भव शब्द</p>	<p>‘कठपुतली’ विषय पर परियोजना कार्य  महाभारत लघु नाटिका</p>
अगस्त 2024	25	31	<p>वसंत भाग - 2 मिठाई वाला फेरीवालों की आवाज (केवल पढ़ने के लिए) पापा खो गए, बाल लाख -महाभारत घर, पांडवों की रक्षा, द्रोपदी स्वयंवर इंद्रप्रस्थ, जरासंध शकुनि का प्रवेश, व्याकरण- क्रिया और काल</p>	<p>मिठाईवाला अभिनय आधारित समायोजन  पापा खो गए - नाटिका मंचन</p>

माह	कार्य दिवस	कालांश	विषयवस्तु / उपविषय	विषय संवर्धन क्रियाकलाप/ विषय विशिष्ट मूल्यांकन साधन
			विशेषण	
<b>आवधिक परीक्षा-2 (08 से 10 अगस्त 2024)</b>				
सितंबर 2024	17	20	वसंत भाग -2 शाम एक किसान अपूर्व अनुभव बाल महाभारत- चौसर का खेल व द्रोपदी की व्यथा, धृतराष्ट्र की चिंता, भीम और हनुमान द्वेष करने वालों का जी नहीं भरता, मायावी सरोवर व्याकरण वाक्यांश के लिए एक शब्द - मुहावरे और लोकोक्तियां अनुच्छेद लेखन	मानवीय जीवन मूल्य आधारित नाटिका का आयोजन महाभारत के पात्रों पर आधारित संवाद लेखन
<b>अर्द्धवार्षिक परीक्षा 23 सितम्बर से 04 अक्टूबर 2024)</b>				
अक्टूबर 2024	21	24	बसंत भाग- 2 रहीम के दोहे, बाल महाभारत- यक्ष प्रश्न अज्ञातवास प्रतिज्ञापूर्ति विराट का भ्रम मंत्रणा व्याकरण- उपसर्ग, प्रत्यय	पारंपरिक एवं आधुनिक खेलों की सूची बनाना
नवंबर 2024	20	23	वसंत भाग- 2 एक तिनका खान पान-की बदलती तस्वीर, बाल-महाभारत – मंत्रणा राजदूत संजय शांतिदूत श्रीकृष्ण पांडवों और कौरवों के सेनापति पहले से नवें दिन तक का युद्ध व्याकरण- वर्तनी वाक्य अर्थ के आधार पर :भेद	कविता-संगीत समायोजन महाभारतलघु नाटिका परियोजना कार्य खानपान परिवर्तन की सूची बनाना

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

माह	कार्य दिवस	कालांश	विषयवस्तु / उपविषय	विषय संवर्धन क्रियाकलाप/ विषय विशिष्ट मूल्यांकन साधन
दिसंबर 2024	20	23	वसंत भाग-2 नीलकंठ, भोर और बरखा बाल-महाभारत- भीष्म शरशैया पर चिंता और कामना व्याकरण- वाक्यशुद्धि-, पत्र लेखन [ पुनरावृत्ति]	अपने जीवन से संबंधित संस्मरण लिखना  महाभारत लघु नाटिका
<b>आवधिक परीक्षा-3 (12 से 14 दिसम्बर 2024)</b>				
जनवरी 2025	14	16	वसंत भाग- 2 वीर कुंवर सिंह संघर्ष के कारण मैं तुनक मिजाज हो गया हमारी ख्वाइश केवल पढ़ने के ) (लिए बाल -महाभारत- भूरिश्रवा जयद्रथ एवं द्रोण का अंत कर्ण और दुर्योधन भी मारे गए अश्वत्थामा युधिष्ठिर की बेदना व्याकरण- विराम-चिह्न	देशभक्तों की सूची बनाना  खेल आधारित शिक्षण
फरवरी 2025	24	26	बसंत भाग- 2 आश्रम का अनुमानित व्यय बाल महाभारत - पांडवों का धृतराष्ट्र के प्रति व्यवहार श्रीकृष्ण और युधिष्ठिर अनुच्छेद- लेखन	विद्यार्थियों द्वारा अपने घर का बजट बनवाना
<b>आवधिक परीक्षा-4 (06 से 08 फरवरी 2025)</b>				
मार्च 2025			सम्पूर्ण पाठ्यक्रम पुनरावृत्ति	
<b>वार्षिक परीक्षा (17-28 मार्च 2025)</b>				

नवोदय विद्यालय समिति

कक्षा : सातवीं विषय : हिंदी

पाठ्यक्रम

-ब

क्रमसंख्या	अध्याय/इकाईकानाम	उपभारांक	भारांक
01	(अ) अपठित गद्यांश (आ) अपठित पद्यांश	5x1= 5 5x1=5	10
02	व्याकरण – पाठ्य पुस्तक से पाठ्यक्रमानुसार	20x1=20	20
03	दूर्वा भाग -2 (अ) पठित गद्यांश पर आधारित (आ) पठित पद्यांश पर आधारित पाठ्य पुस्तक पर आधारित प्रश्न - बहुविकल्पीय प्रश्न- लघु उत्तरीय प्रश्न – (अ) गद्य खंड - (आ) पद्य खंड -	1+1+1+1+1=5 1+1+1+1+1=5 8x1=8 6X2=12 6X2=12	10 08 24
04	रचनात्मक लेखन – (अ)पत्र लेखन (आ)अनुच्छेद लेखन	1x4=4 1x4=4	08
	कुल अंक	80	80
	आंतरिक मूल्यांकन	20	
	समेकित योग	100	

PWT-1	PWT-2	TERM-1	INT.ASS.	TOTAL	PWT-3	PWT-4	TERM-2	INT.ASS.	TOTAL
40	40	80	20	100	40	40	80	20	100

माह	दिनों की संख्या	कालांशों की संख्या	पाठकानाम / निर्धारित विषयवस्तु	क्रियाकलाप / परियोजनाकार्य/ परीक्षा
अप्रैल 2024	24	30	<b>दूर्वा भाग -2</b> 1-चिड़िया और चुरंगुन (हरिवंशराय बच्चन) 2- सबसे सुंदर लड़की (विष्णु प्रभाकर) 3- मैं हूँ रोबोट (राजीव गर्ग) <b>व्याकरण</b> – वर्ण ,शब्द ,संज्ञा एवं संज्ञा के भेद	क्रियाकलाप / परियोजना कार्य का विवरण अग्रांकित है।
<b>आवधिक परीक्षा-1 (26 से 29 अप्रैल 2024)</b>				
जुलाई 2024	26	32	<b>दूर्वा भाग -2</b> 4 - गुब्बारे पर चीता (प्रेमचंद) 5 - थोड़ी धरती पाऊँ(सर्वेश्वरदयाल सक्सेना) <b>व्याकरण</b> – सर्वनाम एवं उसके छः भेद, कर्म के आधार पर क्रिया के भेद, पर्यायवाची शब्द ,मुहावरे, युग्म शब्द (पाठ संबंधी), पत्र लेखन,अपठित गद्यांश	क्रियाकलाप / परियोजना कार्य का विवरण अग्रांकित है।
अगस्त 2024	25	31	<b>दूर्वा भाग -2</b> 6 - गारो (लोककथा) 7 - पुस्तकें जो अमर हैं( मनोज दास) 8- काबुलीवाला (रवीन्द्रनाथ टैगोर) <b>व्याकरण</b> – वचन,प्रत्यय,द्वित्व क्रिया,विलोम शब्द,समानार्थी शब्द,विराम चिह्न, अनुच्छेद लेखन,अपठित पद्यांश	क्रियाकलाप / परियोजना कार्य का विवरण अग्रांकित है।
<b>आवधिक परीक्षा-2 (8 से 10 अगस्त 2024)</b>				
सितंबर2024	17	20	<b>दूर्वा भाग -2</b> 9- विश्वेश्वरैया (आर . के . मूर्ति) <b>व्याकरण</b> -वाक्य रचना ,वाक्य विश्लेषण (उद्देश्य,विधेय),विशेषण,विशेषण बनाना, लिंग, लिंग परिवर्तन, वार्तालाप लेखन <b>पूर्व पठित पाठ्यक्रम का पुनरावर्तन</b>	क्रियाकलाप / परियोजना कार्य का विवरण अग्रांकित है।

माह	दिनों की संख्या	कालांशों की संख्या	पाठकानाम / निर्धारित विषयवस्तु	क्रियाकलाप / परियोजनाकार्य/ परीक्षा
<b>अर्द्धवार्षिक परीक्षा (23 सितम्बर से 04 अक्टूबर 2024)</b>				
अक्टूबर 2024	21	24	दूर्वा भाग -2 10- हम धरती के लाल (शील) व्याकरण - मुहावरे लेखन अर्थ सहित, विशेषण, वाक्य रचना एवं प्रयोग	क्रियाकलाप / परियोजनाकार्यकाविवरण अग्रांकित है।
नवंबर 2024	20	23	दूर्वा भाग -2 11- पौंगल (संकलित) व्याकरण (द्वित्व शब्द), वाक्य परिवर्तन(अर्थ की दृष्टि से), पुनरावृत्ति	क्रियाकलाप / परियोजनाकार्यकाविवरण अग्रांकित है।
दिसंबर 2024	20	23	दूर्वा भाग -2 12- शहीद झलकारीबाई (संकलित) 13- नृत्यांगना सुधा चंद्रन (रामाज्ञा तिवारी) व्याकरण - युग्म शब्द, ध्वन्यात्मक शब्द, मुहावरे लेखन, विलोम शब्द, औपचारिक पत्र	क्रियाकलाप / परियोजनाकार्यकाविवरण अग्रांकित है।
<b>आवधिक परीक्षा-3 (12 से 14 दिसम्बर 2024)</b>				
जनवरी 2025	14	16	दूर्वा भाग -2 14- पानी और धूप (सुभद्रा कुमारी चौहान) 15- गीत (केदारनाथ अग्रवाल) व्याकरण – उपसर्ग, प्रत्यय का प्रयोग, शब्द संपदा, शब्दों का वाक्यों में प्रयोग	क्रियाकलाप / परियोजना कार्य का विवरण अग्रांकित है।

माह	दिनों की संख्या	कालांशों की संख्या	पाठकानाम / निर्धारित विषयवस्तु	क्रियाकलाप / परियोजनाकार्य/ परीक्षा
फरवरी 2025	24	26	<b>दूर्वा भाग -2</b> 16- मिट्टी की मूर्तियाँ (निबंध -अतिरिक्त पठन हेतु -जया विवेक) 17- मौत का पहाड़ (चित्रकथा) 18- हम होंगे कामयाब एक दिन (गीत -अतिरिक्त पठन हेतु -गिरिजा कुमार माथुर) <b>व्याकरण</b> -विराम चिह्न ,प्रश्नार्थक सर्वनामों का प्रयोग , अनुच्छेद लेखन, पत्र लेखन	क्रियाकलाप / परियोजना कार्य का विवरण अग्रांकित है।
<b>आवधिक परीक्षा-4 (06 से 08फरवरी 2025)</b>				
मार्च 2025			पूर्व पठित पाठ्यक्रम का पुनरावर्तन <b>वार्षिक परीक्षा (17-28 मार्च 2025)</b>	

नोट – कला / कहानी / खेल / खिलौना समेकित शिक्षण शास्त्र का यथासंभव शिक्षण में प्रयोग करें।

### विषय संवर्धक क्रियाकलाप/ Subject Enrichment Activities

माह	पाठकानाम	क्रियाकलाप / परियोजनाकार्य	आंतरिकमूल्यांकन
अप्रैल 2024	1-चिड़िया और चुरंगुन (हरिवंशराय बच्चन) 2- सबसे सुंदर लड़की (विष्णु प्रभाकर) 3- मैं हूँ रोबोट (राजीव गर्ग)	1- अपने आस-पास दिखाई देने वाले पशु-पक्षियों के बारे में जानकारी एकत्रित करें । 2-आपके हिसाब से अमीरी और गरीबी के अंतर को कैसे दूर किया जा सकता है ? इसके उपायों की सूची बनाइए 3-रोबोट कई आकार - प्रकार के होते हैं ,पत्रिकाओं और समाचार-पत्रों से उनके चित्र और मनपसंद लेखों को एकत्रित करके उनकी सूची बनाइए।	1 बहुविकल्पीय प्रश्न -10 2 पोर्टफोलियो -10 3 श्रवण / वाचन -10

माह	पाठकानाम	क्रियाकलाप / परियोजनाकार्य	आंतरिकमूल्यांकन
जुलाई 2024	4-गुब्बारे पर चीता (प्रेमचंद) 5 - थोड़ी धरती पाऊँ (सर्वेश्वरदयाल सक्सेना)	1-सड़क सुरक्षा ,प्रदूषण और शिक्षा के बारे में विज्ञापन बनाकर अपने मित्रों के साथ मिलकर उस पर चर्चा करें। 2-आपके घर के पास कौन-कौन से पेड़-पौधे, पशु-पक्षी आमतौर पर नज़र आते हैं? उनके नामों की सूची बनाइए।	1 बहुविकल्पीय प्रश्न -10 2 पोर्टफोलियो -10 3 श्रवण / वाचन -10 आवधिक परीक्षा-1
अगस्त 2024	6 - गारो (लोककथा) 7 - पुस्तकें जो अमर हैं( मनोज दास) 8- काबुलीवाला (रवीन्द्रनाथ टैगोर)	1 -अपने प्रदेश या किसी राज्य की किसी जनजाति के बारे में पता करके उस पर कक्षा में चर्चा करें। 2 -अपनी पाठ्य पुस्तकों के अतिरिक्त आप ने कौन-कौन सी पुस्तकें पढ़ी हैं? उसकी सूची बनाइए। 3 -किन-किन साधनों से देश -विदेश के बारे में जानकारी प्राप्त की जा सकती है ? उसकी सूची बनाइए ।	1 बहुविकल्पीय प्रश्न -10 2 पोर्टफोलियो -10 3 श्रवण / वाचन -10 आवधिक परीक्षा-2
सितंबर 2024	9- विश्वेश्वरैया (आर . के . मूर्ति)	1 -सर्दी -गरमी के मौसम में आपके घर के आस -पास क्या-क्या दिखाई देता है ? उसके बारे में लिखिए।	1 बहुविकल्पीय प्रश्न -10 2 पोर्टफोलियो -10 3 श्रवण / वाचन -10
अक्टूबर 2024	10- हम धरती के लाल (शील)	1-इस तरह की एक और कविता खोजकर पढ़िए और उसे लिखिए ।	1 बहुविकल्पीय प्रश्न -10
नवंबर 2024	11- पोंगल (संकलित)	2-रंगोली बनाने के लिए किन -किन चीजों का प्रयोग किया जाता है ? उसकी सूची बनाइए ।	1 पोर्टफोलियो -10 2 श्रवण / वाचन -10



माह	पाठकानाम	क्रियाकलाप / परियोजनाकार्य	आंतरिकमूल्यांकन
दिसंबर 2024	12- शहीद झलकारीबाई (संकलित) 13- नृत्यांगना सुधा चंद्रन (रामाज्ञा तिवारी)	1. आज़ादी की लड़ाई में हिस्सा लेने वाली कुछ महिलाओं के बारे में जानकारी एकत्रित करके लिखिए। 2 -भारत के कुछ नृत्यों और नर्तक / नर्तकियों के बारे में पता करके कक्षा में चर्चा करें।	1 बहुविकल्पीय प्रश्न -10 2 पोर्टफोलियो -10 3 श्रवण / वाचन -10 आवधिक परीक्षा-3
जनवरी 2025	14- पानी और धूप (सुभद्रा कुमारी चौहान) 15- गीत (केदारनाथ अग्रवाल)	1 -उन देशभक्तों के नाम पता करके लिखिए जो बचपन से ही आज़ादी की लड़ाई में कूद पड़े थे। 2 -आपको लगता है कि आज भी किसी को मान -सम्मान नहीं मिल पा रहा है और आप उसको मान -सम्मान दिलाना चाहते हैं तो उनके नामों की सूची बनाइए।	1 बहुविकल्पीय प्रश्न -10 2 पोर्टफोलियो -10 3 श्रवण / वाचन -10
फरवरी 2025	16- मिट्टी की मूर्तियाँ (निबंध - अतिरिक्त पठन हेतु -जया विवेक) 17- मौत का पहाड़ (चित्रकथा) 18- हम होंगे कामयाब एक दिन (गीत -अतिरिक्त पठन हेतु -गिरिजा कुमार माथुर)	1-मिट्टी से स्वयं किसी वस्तु / खिलौने का निर्माण करें। 2-इस तरह की अन्य कहानियों को खोजकर पढ़िए। 3-इस गीत का कक्षा में सस्वर गायन करें।	1 बहुविकल्पीय प्रश्न -10 2 पोर्टफोलियो -10 3 श्रवण / वाचन -10 आवधिक परीक्षा-4
मार्च 2025	पुनरावृत्ति वार्षिक परीक्षा (17-28 मार्च 2025)		

### वैषय समेकित गतिविधि/ विषय परिपोषक गतिविधि

#### कक्षा- सात दूर्वा (भाग-2)

##### • चिड़िया और चुरंगुन-

इस पाठ को कलासमेकित गतिविधि के द्वारा प्रस्तुत कर सकते हैं। कक्षा में 2 छात्रों के द्वारा रंगमंच के माध्यम से नुक्कड़नाटक के माध्यम से किसी एक छात्र या छात्रा को चिड़िया और दूसरे छात्र या छात्रा को चुरंगुन का अभिनय, कविता अनुसार करवा सकते हैं। शेष शिक्षक अपने स्वविवेक का प्रयोग कर सकते हैं।

- **सबसे सुंदर लड़की-**

इस पाठ को **खेल समेकित गतिविधि** के द्वारा प्रस्तुत किया जा सकता है। कक्षा में दो समूह बनाए और कोई भी दो नाम र सकते हैं, शिक्षक बॉक्स को अपने पास रखेगा और एक प्रश्न श्यामपट्ट पर लिखेगा “सुंदरता हम कैसे जान सकते हैं” : दोनों समूह को अपने समूह के नाम और एक वाक्य के उत्तर को कागज़ के चिट पर लिखकर बॉक्स में डालने के लिए कहें साथ ही शिक्षक समय भी निर्धारित करें जिससे दोनों समूहों में प्रति स्पर्धा हो, इस प्रकार छात्रों द्वारा दूर रखे बॉक्स में डालने के बाद, शिक्षक समूह के अनुसार चिट को अलग – अलग करेंगे, एक-एक चिट को पढ़ेंगे और सुंदरता पर प्रत्येक छ की सोच को जानेंगे और छात्रों को भी बताएंगे।

- **मैं हूँ रोबोट-**

इस पाठ को **कला समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। जिसमें **नुक्कड़ नाटक** के माध्यम से कक्षा के छात्र को रोबोट की वेशभूषा में तैयार करके, रोबोट की समस्त विशेषताओं और कमियों को समझाया जा सकता है।

- **गुब्बारे पर चीता-**

इस पाठ को **कला समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। जिसमें शेर, चीता, हाथी आदि के पेंसिल स्केच रंगीन चित्र बनाए जा सकते हैं। इस प्रकार छात्रों को पाठ से जोड़ा जा सकता है।

- **थोड़ी धरती पाऊँ**

इस पाठ को **कला समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। जिसे नुक्कड़ नाटक के माध्यम से प्रस्तुत कर स है। इसमें मुख्य भूमिका पेड़ों की होगी, जिसमें किसी छात्र द्वारा अभिनय करवाया जा सकता है। अन्य अभि आवश्यकतानुसार भी करवा सकते हैं।

- **गारो-**

इस पाठ को **खेल समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। इस गतिविधि के लिए छात्रों को बाहर खुले मैदान में जाएं तथा कक्षा के किसी एक छात्र की आंख पर पट्टी बांधे फिर उसके हाथों में मिट्टी या कोई अन्य वस्तु रख दें और एक छ द्वारा उसे मैदान में चारों तरफ दाएं- बाएं घुमाते हुए किसी निर्धारित स्थान पर उस वस्तु को रखवा दें, फिर उसे दूर तक घुम हुए ले जाएं और उसके आंख की पट्टी को खोल दें और उसे उस वस्तु को ढूंढने के लिए कहें, कक्षा के सभी छात्र उसके पीछे च लेकिन कोई उसे वस्तु के स्थान को ना बताएं, इस प्रकार गारो पाठ के साथ हम खेल के माध्यम से जुड़ सकते हैं जो अनज स्थान की खोज करते हैं।

- **पुस्तकें जो अमर हैं-**

इस पाठ को **कला समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। जिसमें **रंग मंच या नुक्कड़ नाटक** में छात्रों द्व अभिनय के माध्यम से बच्चों को एक राजा और उसके मंत्री के अत्याचार और विद्वानों की बुद्धिमत्ता को समझाया जा सक है।

- **काबुलीवाला-**

इस पाठ को **कला समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। जिसमें नुक्कड़ नाटक के माध्यम से पाठ को छात्रों सामने छात्रों के द्वारा अलग-अलग अभिनय के द्वारा प्रस्तुत किया जा सकता है।

- **विश्वेश्वरैया-**

इस पाठ को **खेल समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। खेल के माध्यम से छात्रों में जिज्ञासा उत्पन्न की ज जैसे- शिक्षक एक बॉक्स कक्षा में ले जाएं और उस बॉक्स में छोटी –छोटी माचिस की डिबिया रखें, माचिस की अलग-अ

डिबिया में कंकड़, मिट्टी, चूना, चॉक, घास, कॉटन, कागज़ आदि कुछ भी वस्तुओं को भर कर रख सकते हैं और छात्रों को दे उस डिबिया को तब तक खोलने के लिए मना करें, जब तक कि छात्र एक निर्धारित स्थान से दौड़ कर वापस नहीं आ जा प्रत्येक छात्र अपनी-अपनी डिबिया को अकेले में खोलकर देखें और अपनी वस्तुओं के प्रथम अक्षर को बोले तथा सभी छात्र ए दूसरे की वस्तुओं के प्रथम अक्षर के आधार पर उसका नाम बताएं। जैसे-जैसे सही नाम किसी छात्र द्वारा बताया जाता है उसे अलग बैठा दिया जाए। इस प्रकार पाठ को जिज्ञासा के आधार पर जोड़ कर पढ़ाया जा सकता है।

- **हम धरती के लाल-**

इस पाठ को **कला समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। इस पाठ को एक नुक्कड़ नाटक के माध्यम से कक्षा सभी अभिनय करने वाले छात्र, कविता वाचन के साथ भी कर सकते हैं, जो अलग-अलग वेशभूषा जैसे-हिंदू, मुस्लिम, सि ,इसाई आदि के रूप में होंगे।

- **पोंगल-**

इस पाठ को **कला समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। इसमें चित्रकारी ,रंगोली बनाकर अलग-अलग राज में मनाए जाने वाले इस त्यौहार को एकीकृत कर सकते हैं और छात्रों का बिहू, पोंगल, लोहड़ी, मकर संक्रांति आदि नामों समूह बनाये। उन्हें अपनी-अपनी विशेषताओं को प्रदर्शित करने के लिए प्रेरित करें और इस त्यौहार के माध्यम से “अनेकता एकता” का भी छात्रों में संदेश दे सकते हैं।

- **शहीद झलकारीबाई-**

इस पाठ को **कला समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। जिसमें कक्षा के दो ऐसे छात्र या छात्राओं को च जिनकी शारीरिक बनावट एक जैसी हो,उनमें शारीरिक समानता अधिक हो।अब उनके चेहरे को छिपाने के लिए किसी काग के मास्क का प्रयोग करें या किसी जानवर के चेहरे वाले मास्क को पहनाएं और उनके कपड़े को एक जैसे पहनाएं ,इन छ छात्राओं को अन्य छात्रों से अलग तैयार होने के लिए कहे। तैयार होने के बाद उन्हें कक्षा में सभी छात्रों के समक्ष प्रस्तुत क तथा कक्षा के छात्रों से उन्हें पहचानने के लिए कहे। इस प्रकार इसे रानी लक्ष्मीबाई और झलकारीबाई की समानता से उ सकते हैं।

- **नृत्यांगना सुधा चंद्रन-**

इस पाठ को **कहानी वाचन समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। जिसमें उत्साह वर्धक कहानी, कविता माध्यम से पाठ को आरंभ कर सकते हैं या किसी और संघर्षपूर्ण कहानी के माध्यम से पाठ को आरम्भ कर सकते हैं।

- **पानी और धूप-**

इस पाठ को **कहानी वाचन समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। कक्षा में किसी साहस पूर्ण कहानी सुनाकर पाठ की कविता को उससे जोड़ सकते हैं, जिसमें एक छोटी लड़की अपने परिवार की रक्षा करने के लिए साहसपूर्ण ब करती हैं।

- **गीत-**

इस पाठ को **कला समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। इसमें नुक्कड़ नाटक के माध्यम से कविता वाचन साथ-साथ शारीरिक हाव-भाव का भी प्रदर्शन कराया जा सकता है। शारीरिक हावभाव के द्वारा कविता की भावना से जुड़ छात्रों के मन मस्तिष्क तक पहुंचा जा सकता है।

- **मिट्टी की मूर्तियाँ-**

इस पाठ को **खिलौना समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। जिसमें कक्षा के सभी छात्रों को मिट्टी के खिल ,मूर्तियाँ आदि बनाने के लिए दे सकते हैं। छात्र इस प्रकार पाठ से जुड़ भी जाएंगे और मिट्टी से मूर्तियाँ कैसे बनती है,यह सी भी पाएंगे।

- **मौत का पहाड़-**

इस पाठ को **कला समेकित गतिविधि** द्वारा प्रस्तुत किया जा सकता है। शिक्षक किसी कहानी की अलग-अलग फोटो को क के बोर्ड या श्यामपट्ट पर लगा दें, फिर सभी छात्रों से उस फोटो को देखकर कहानी लिखने या सुनाने के लिए कह सकते हैं।

- **हम होंगे कामयाब एक दिन-**

इस पाठ को अतिरिक्त संगीत गतिविधियों द्वारा प्रस्तुत किया जा सकता है। जिसमें कक्षा के समस्त छात्र एक साथ ग गायन कर सकते हैं, इसमें शिक्षक गीत के अनुसार शारीरिक हाव-भाव भी प्रस्तुत करवा सकते हैं। जिससे छात्र कविता भावना के साथ जुड़ सकते हैं।

**NAVODAYA VIDYALAYA SAMITI**

**CLASS: VII**

**SUBJECT: MATHEMATICS**

Chapter No.	NameofTheChapter	Marks	Periods
<b>TERM-I</b>			
01	INTEGER	10	10
02	FRACTIONSANDDECIMALS	14	12
05	LINESANDANGLES	12	15
03	DATAHANDLING	12	11
12	ALGEBRAICEXPRESSIONS	12	12
04	SIMPLEEQUATIONS	12	10
15	VISUALISINGSOLIDSHAPES	08	10
	TOTAL	80	80
	Convertinto50	50	
	InternalAssessment	50	
	TERM-ITotal	100	
	TERM-I(WEIGHTAGE)	40%	
<b>TERM-II</b>			
09	RATIONALNUMBERS	10	15
11	PERIMETERANDAREA	10	15
06	THETRIANGLESANDITSPROPERTIES	15	15
14	SYMMETRY	10	07
08	COMPARINGQUANTITIES	09	15
13	EXPONENTSANDPOWERS	10	08
TERM-I 20%	TERM 1 SYLLABUS	16	20%syllabusof First term
	TOTAL	80	75
	Convertinto50	50	
	InternalAssessment	50	
	Term-IITotal	100	

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

TERM-II(WEIGHTAGE)	60%
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MONTH	NO. OF DAYS	NO. OF PERIODS	Weightage of Marks for the Unit / Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects to be given	
APRIL-2024	22	10  12	10  14	<p><b>Chapter-<u>INTEGERS</u>:</b></p> <ul style="list-style-type: none"> <li>• Properties of Addition and Subtraction of Integers</li> <li>• Multiplication and Division of Integers</li> <li>• Properties of Multiplication of Integers</li> <li>• Properties of Division of Integers</li> <li>• Word Problems</li> </ul> <p><b>Chapter-<u>FRACTION AND DECIMALS</u>:</b></p> <ol style="list-style-type: none"> <li>1) Diagrammatic Representation of Fraction.</li> <li>2) Simple and Equivalent Form of Fractions.</li> <li>3) Basic Operations on Fractions and Decimals.</li> <li>4) Word Problems.</li> </ol>	<p><b><u>Subject Enrichment Activity-1:</u></b> Addition and Subtraction of Integers by Game.</p> <p><b><u>Activity-2:</u></b> To find the sum of fractions with different denominators</p> <p><b><u>Maintain Portfolio Multiple Assessment:</u></b> Quiz / Puzzle / Exit cards / Oral test/Origami/PPT/Project.</p>	PWT-1 (26-29 APRIL 2024)
JULY 2024	26	15  11	12  12	<p><b>Chapter-<u>LINES AND ANGLES</u>:</b></p> <ul style="list-style-type: none"> <li>• Recall, Curves, Shapes, Point, Line-segment, Line</li> <li>• Distinct types of Angles</li> <li>• Pair of Angles</li> <li>• Properties of Parallel Lines and related problem.</li> <li>• Transversal and related Angles and its problems</li> </ul> <p><b>Chapter-<u>DATA HANDLING</u>:</b></p> <ul style="list-style-type: none"> <li>• Frequency distribution table using Tally Marks</li> <li>• Mean, Range, Medians and Mode of Ungrouped Data</li> <li>• Constructing Bar Graph</li> </ul>	<p><b><u>Subject Enrichment Activity-3:</u></b></p> <ul style="list-style-type: none"> <li>• To verify that vertically opposite angles are equal.</li> <li>• Model of parallel lines and transversal.</li> </ul> <p><b><u>Subject Enrichment Activity-4:</u></b> To collect data and represent this through a bar graph.</p> <p><b><u>Maintain Portfolio Multiple Assessment</u></b> Quiz / Puzzle / Exit cards / Oral test/Origami/PPT/Project/</p>	



Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

MONTH	NO. OF DAYS	NO. OF PERIODS	Weightage of Marks for the Unit / Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects to be given
OCT 2024	18	15	10	<p><b>Chapter-<u>RATIONALNUMBERS:</u></b></p> <ul style="list-style-type: none"> <li>Recall of Natural Numbers, Whole Numbers and Integers.</li> <li>Need for Rational Numbers.</li> <li>Standard form of Rational Numbers</li> <li>Comparison of Rational Numbers</li> <li>Finding Rational Numbers between two Rational Numbers</li> <li>Operation on Rational Numbers</li> </ul>	<p><b>Subject Enrichment Activity-6:</b></p> <p>To find the ratio of circumference and diameter of circle.</p> <p><b>Maintain Portfolio:</b></p>
NOV 2024	20	15 05	10 15	<p><b>Chapter-<u>PERIMETER AND AREA:</u></b></p> <ul style="list-style-type: none"> <li>Area of Triangle and Parallelogram</li> <li>Area of Triangles</li> <li>Circumference of Circle</li> <li>Area of Circle</li> </ul> <p><b>Chapter-<u>TRIANGLE AND ITS PROPERTIES:</u></b></p> <ul style="list-style-type: none"> <li>Recall Types of Triangles</li> <li>Medians and Altitudes of a Triangle</li> <li>Exterior angles of a Triangle and its Properties</li> <li>Angle sum property of a Triangle</li> </ul>	<p><b>Multiple Assessment:</b></p> <p>Quiz / Puzzle / Exit cards / Oral test / Origami / PPT / Project</p>



MONTH	NO. OF DAYS	NO. OF PERIODS	Weightage of Marks for the Unit / Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects to be given	
DEC 2024	17	10 07	10	<p><b><u>TRIANGLE AND ITS PROPERTIES:</u></b></p> <ul style="list-style-type: none"> <li>• Special types of triangles: Equilateral and Isosceles Triangle</li> <li>• Sum and Difference of two sides of a Triangle compare with the third side</li> <li>• Right Angle Triangle and Pythagoras Property</li> <li>• Word Problem</li> </ul> <p><b>Chapter-<u>SYMMETRY:</u></b></p> <ul style="list-style-type: none"> <li>• Recall of Symmetric and Non-symmetric Figures</li> <li>• Line of Symmetry and Lines of Symmetry for Regular Polygons</li> <li>• Rotational Symmetry: Angle of Rotation and Order of Rotation</li> <li>• Line Symmetry and Rotational Symmetry</li> </ul>	<p><b><u>Subject Enrichment Activity-7:</u></b></p> <p>To verify the sum of angles of a triangle is 180 degrees.</p> <p><b><u>Activity-8:</u></b></p> <p>To find the order of rotational symmetry of a given figure</p> <p><b><u>Maintain Portfolio:</u></b></p> <p><b><u>Multiple Assessment:</u></b> Quiz / Puzzle / Exit cards / Oral test / Origami / PPT / Project</p> <p><b>Assignment-5</b></p>	PWT-312- 14 DEC 24
JAN 2025	15	15	09	<p><b>Chapter-<u>COMPARING QUANTITIES:</u></b></p> <ul style="list-style-type: none"> <li>• Percentage</li> <li>• Converting of Fractions, Decimals into Ratio and Percentage</li> <li>• Converting Percentage to Fractions or Decimals</li> <li>• Applications of Percentage: Profit/Loss and Increase or Decrease as Percent</li> <li>• Simple Interest</li> <li>• Word Problems</li> </ul>	<p><b><u>Subject Enrichment</u></b></p> <p><b><u>Maintain Portfolio:</u></b></p> <p><b><u>Multiple Assessment:</u></b> Quiz / Puzzle / Exit cards / Oral test / Origami / PPT / Project.</p> <p><b>Assignment-6</b></p>	

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

MONTH	NO. OF DAYS	NO. OF PERIODS	Weightage of Marks for the Unit / Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects to be given	
FEB 2025	21	08  13	10	<p><b>Chapter-<u>EXPONENTS AND POWERS</u>:</b></p> <ul style="list-style-type: none"> <li>• Introductions</li> <li>• Laws of Exponents</li> <li>• Decimals Number System and Exponents</li> <li>• Expressing Large Number in the Standard Form</li> </ul> <p><b>Revision of significant topics</b></p>	<p><b><u>Subject Enrichment Activity 9 :</u></b> To find the value of a<sup>n</sup> using paper folding.</p> <p><b><u>Maintain Portfolio: Multiple Assessment:</u></b> Quiz / Puzzle / Exit cards / Oral test / Origami / PPT / Project</p>	PWT-4 06 Feb 25 TO 09 FEB 25
MARCH 2025		15		REVISION		
ANNUAL EXAMINATION 17-28 March 2025						

## NAVODAYA VIDYALAYA SAMITI

**CLASS VII**

**SUBJECT: SCIENCE**

UnitNo	Name Of The Chapter / Unit	PERIODS
1	NutritionIn Plants	12
5	PhysicalAndChemicalChanges	10
3	Heat	13
2	NutritionIn Animals	13
4	Acids, Bases AndSalts	17
6	RespirationInOrganisms	23
9	Motion And Time	08
8	ReproductionIn Plants	15
10	ElectricCurrentAnd ItsEffects	08
7	TransportationInAnimals and plants	09
11	Light	22
12	Forests-OurLife Line	10
13	WasteWaterStory	07
	<b>TOTAL</b>	<b>80 Marks</b>
	<b>INTERNALASSESSMENT</b>	<b>20Marks</b>
	<b>GRANDTOTAL</b>	<b>100 Marks</b>

Month	No. of Days	No. of periods	Main topic and sub topic to be covered	Activities projects/practical's experiments to be held specific assessment tools (suggested)
April-2023	22	12	<b>1.Nutrition in plants:(Biology):</b> Mode on Nutrition in plants (autotrophic/ heterotrophic), Photosynthesis, Synthesis of food other than carbohydrates, Host- parasite, insectivorous plants, Saprotrophs and symbiotic relationship, How Nutrients are replenished in soil	Activities:1.2&1.2and Extended Learning Activities Multiple assessment: Concept maps, Drawing, Puzzles, Quizzes etc PF: Note bookcorrection
		10	<b>5.Physical and Chemical Changes:(Chemistry)</b> Physical changes, Chemical changes, Rusting of Iron, Crystallization	Activities: 6.1 to 6.9 and Extended Learning Activities
<b>Periodic Written Test-1 (26-29 April-2024)</b> <b>Suggestive Activities for PWT-1 Concept maps, Quizzes, Drawing, Puzzles, Discussions etc</b>				
July-2024	26	13	<b>3.Heat:(Physics)</b> Hot and Cold, Measuring Temperature Laboratory Thermometer, Transfer of Heat , Kinds of Clothes we wear in Summer and Winter	Activities:4.1 to 4.11 and Extended Learning Activities
		13	<b>*2. Nutrition in Animals:(Biology)</b> Different ways of taking food, Digestion in humans The Food/pipe/Oesophagus, The Small Intestine, Large Intestine, Digestion in Grass-eating animals, Feeding and Digestion in Amoeba	Activities:2.2,-2.4and Extended Learning Activities
<b>Periodic Written Test-2 (08-10 August-2024)Multiple Assessment Concept maps, quizzes , drawing numerical, discussions etc</b>				
August 2024	22	22	<b>11. Light :(Physics)</b> Light travels along a Straight Line, Reflection of light, Right or left, Playing with Spherical mirrors, Images formed by lenses ,Sun light-White or Color	Activity:15.1to 15.12, and Extended Learning Activities, Prism, Newton disc, Periscope
September- 2024	17	17	<b>*4.Acids and bases and salts:(Chemistry)</b> Acids and Bases, Natural Indicators around us Neutralization in Everyday Life	Activitvies:5.1and 5.2 Extended learning activities
<b>Term-1 (23 Sept-04 October-2024) Exams</b>				

Month	No. of Days	No. of periods	Main topic and sub topic to be covered	Activities projects/practical's experiments to be held specific assessment tools (suggested)
October-2024	18	18	<b>06.Respiration in Organisms :(Biology)</b> Why do we respire, Breathing, How do we breathe, What do we breath out, Breathing in other animals, Breathing under water, Do plants also respire	Activitivies:10.1to10.4and Extended learning activities
November-2024	20	5	Continuation of <b>06.RespirationinOrganisms</b>	<b>Activities and Extended Learning activities</b>
		15	<b>08.Reproduction in plants:(Biology)</b> Modes of reproduction, Sexual reproduction, Fruits and seeds formation, Seed dispersal	<b>12.Reproduction in plants:(Biology)</b> Modes of reproduction, Sexual reproduction, Fruits and seeds formation, Seed dispersal
December-2024	17	08	<b>09.Motion and time:(Physics)</b> Slow or Fast, Speed, Measurement of time, Measuring speed	Activity:13.1, to13.3, and Extended learning activities
		<b>Periodic Written Test-3 (12-14 December-2024) Activities: concept maps, quizzes, drawing numerical, discussions CCT based questions etc</b>		
		09	<b>07.Transportation in Animals and Plants:(Biology)</b> Circulatory system, Excretion in animals, Excretory System in humans, Transport of substances in plants	Activity:11.1 to 11.3 and E- learning activities
January-2025	15	07	<b>13.Waste water Story:(Chemistry)</b> Water our Life line, What is Sewage, Water Freshensup- an Event ful journey, Treatment of Polluted Water, Waste water Treatment Plant, Better Housekeeping practices, Sanitation and Disease, Alternative Arrangement for Sewage Disposal, Sanitation at public Places	Activity:18.1 to 18.4 and extended learning
		08	<b>10.Electric current and its Effects:(Physics)</b> Symbols of Electric components, Heating effect of Electric Current, Magnetic Effect of Electric Current, Electromagnet	Activity:14.1to 146, and Extended learning activities
			<b>Periodic Written Test-4 (06-08 Feb) 2025</b>	

Month	No. of Days	No. of periods	Main topic and sub topic to be covered	Activities projects/practical's experiments to be held specific assessment tools (suggested)
February- 2025	21	10	<b>12.Forests: our Life line:</b> (Biology)Visit to a Forest, Forest products ,Dynamic living entity, Deforestation: causes and consequences And Revision For Term-2 Exams	Activity:17.1to 17.3 and Extended learning activities
March- 2025			<b>Revision for Term-2exams: (17 to 28 March 2025)</b>	

**Note :**

1. Activities should be performed when the lesson is being taught and should be integrated with the chap as per the new pedagogical approach and NEP.
2. 20% of the term syllabus (**star marked chapters**) should be revised and covered in the Term II questi paper along with the entire Term II syllabus.

**NAVODAYA VIDYALAYA SAMITI**

**CLASS-VII**

**SUBJECT- SOCIAL SCIENCE**

<b>Chapter No</b>	<b>Title of the Chapter</b>	<b>Weightage</b>
	<b>History ; Our Past II</b>	
1	Tracing Changes Through a Thousand Years	6
2	New Kings & Kingdom	7
3	The Delhi Sultans	7
4	Mughal Empire	6
5	Rulers & Buildings	7
6	Towns Traders & Craft Persons	5
7	Tribes Nomads & Settled Communities	5
8	Devotional path to the Divine	5
9	Making of Regional Cultures	6
10	Eighteenth Century Political Formations	6
	<b>Geography : Our Environment</b>	
1	Environment	8
2	Inside Our earth	6
3	Our Changing Earth	7
4	Air	6
5	Water	5
6	Natural Vegetation & Wildlife	5
7	Human Environment Interactions; Settlement Transport & Communication	4
8	Human Environment Interactions : tropical & Subtropical Region	4
9	Life in the desert	5
	<b>Civics; Social &amp; Political Life</b>	
1	On Equality	6
2	Role of the Government in Health	7
3	How the state Government Works	7
4	Growing up us Boys & Girls	5
5	Women Change the World.	5
6	Understanding Media	6
7	Markets Around Us	5
8	A Shirt in the Market	4
9	Struggles for Equality	5
	Total	80+80 (Term I&II)

Month	No of Days	Periods	Chapter Name	Activities/Projects/ Practical Experiments To Be Held/Specific Assessment Tool (Suggested)
April 2024	22	19	1. Tracing Changes Through a Thousand Years 2. New Kings & Kingdom 3. On Equality 4. Environment <b>PWT 1 (26-29 April 2024)</b>	<ul style="list-style-type: none"> <li>• Making of diagrams/ models of interior of the earth, formation of different types of landforms, movements of water in the ocean, etc.</li> <li>• Models to display different types of landforms.</li> <li>• Collection of samples and identify different types of rocks from the vicinity.</li> <li>• Mock drill for earthquakes or other disasters.</li> <li>• Enact/dramatise key events of a given historical period/personality like, Razia Sultan, Akbar etc.</li> <li>• Prepare posters/Charts on the significance of the Constitution, Preamble, fundamental rights.</li> <li>• Organise a mock election and Role play on working of State assembly.</li> </ul>
July 2024	26	22	- The Delhi Sultans - Mughal Empire - Role of the Government in Health - Inside Our earth	
August, 2024	22	19	- How the state Government Works - Growing up us Boys & Girls - Our Changing Earth	
			<b>PWT 2 (8-10 Aug. 2024)</b>	
September 2024	17	15	- Rulers & Buildings - Air <b>Mid-Term (23 Sep.- 04 Oct. 2024)</b>	
Oct-24	18	15	- Towns Traders & Craft Persons - Women Change the World.	



Month	No of Days	Periods	Chapter Name	Activities/Projects/ Practical Experiments To Be Held/ Specific Assessment Tool (Suggested)
November 2024	20	16	- Understanding Media - Water - Tribes Nomads & Settled Communities - Natural Vegetation & Wildlife	<ul style="list-style-type: none"> <li>• A project on Hindu saints and Sufis and their contributions.</li> <li>• Role play of life of Saints like Kabir, Mirabai</li> </ul>
December 2024	17	15	- Markets Around Us - Devotional path to the Divine - Human Environment Interactions; Settlement Transport & Communication	
			<b>PWT 3 ( 12-14 Dec. 2024)</b>	
January 2025	12	10	- A Shirt in the Market - Human Environment Interactions; The Tropical & Subtropical Regions	
February 2025	20	16	<b>PWT 4 (06-08 Feb. 2025)</b> -The Making of Regional Cultures - Eighteenth Century political Formations - Struggles for Equality - Life in the Desert	Debate/ Discussion a. Participation b. Knowledge Picture Collection/Collage making
March 2025	Revision <b>Term End (17-28 march 2025)</b>			

**NAVODAYA VIDYALAYA SAMITI**

**CLASS : VII**

**SUBJECT: COMPUTER**

Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chanter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
April	22	08	10 M	<p><b>INTRODUCTION TO NETWORK</b></p> <p>a) What is a network?                      b) Types of Network                      c) What is Network Cabling?                      d) Types of cables used in networks                      e) Computer network components</p> <p><b>INTRODUCTION TO INTERNET</b></p> <p>a) What is an internet?                      b) Applications of internet.</p>	<p>Learn about different types of cables used in networking.                      For example, the students can observe and understand the types of cables used in Computer lab for networking.                      Differentiate between World Wide Web and internet.</p>
<b>PWT-01/UT- 01 (26-29 APRIL 2024)</b>					
JULY	27	08	continue	<p><b>INTRODUCTION TO INTERNET</b></p> <p>a) Web Browsers                      b) Search engines.                      c) World Wide Web.                      d) Saving information from internet.</p> <p><b>WORKING WITH EXCEL</b></p> <p>e) Introduction workbook &amp; Worksheet use in day to day life.                      f) Steps to start excel                      g) Components of excel screen                      h) Various data types</p>	<p><b>Assignment:</b>                      Prepare a Word document, download pictures and data from internet and paste in this document                      Open an Excel work book and do the following work: -</p> <ul style="list-style-type: none"> <li>• Name the excel work book</li> <li>• Create different sheets in it</li> </ul>



Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
SEPTEMBER	15	4	10 M	<b>ELECTRONIC MAIL:</b> <ul style="list-style-type: none"> <li>• Advantages and disadvantages of social media/sites</li> <li>• Creating Gmail Account</li> <li>• Features of Gmail Account</li> <li>• Compose Mail</li> <li>• Upload &amp; Attachment</li> <li>• Downloading</li> <li>• Forwarding and Reply</li> <li>• Recipient</li> </ul>	Students have to create their email id. Open their Email-Id , attach documents and send mail to their friends
<b>MID TERM (23 SEPT TO 04 OCT 2024)</b>					
OCTOBER	22	06	10 M	<b>GOOGLE DRIVE:</b> <ul style="list-style-type: none"> <li>• Create new folder</li> <li>• New file upload</li> <li>• New folder upload</li> <li>• Google sheet</li> <li>• Google form</li> <li>• How to create a sharable link?</li> <li>• Remove a file from Google drive</li> </ul>	<ul style="list-style-type: none"> <li>• Open the Gmail-id,</li> <li>• Open the Google drive and do all the given activities.</li> </ul>

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chanter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
NOVEMBER	26	08	10 M	<b>COMPUTER SECURITY:</b> a) Threats to Computer b) Virus and its Types c) Antivirus d) Software and Types of Software e) Firewall and its use f) Cyber Crime g) Backup and Restore h) Cyber Law and its importance	Prepare a power point presentation about cyber safety and security
DECEMBER	20	04	10 M	<b>MULTIMEDIA-I:</b> <ul style="list-style-type: none"> <li>• Introduction to Multimedia</li> <li>• Definition and use of Multimedia</li> <li>• Hardware and Software Required</li> <li>• Media Player</li> <li>• How to open and use</li> <li>• Sound Recorder</li> </ul>	Prepare an assignment about multimedia and its use.
<b>PWT-03/ UT -3 (12-14 DEC 2024)</b>					
JANUARY	14	06	10 M	<b>MULTIMEDIA-II:</b> a) Movie Maker b) Inserting Image c) Setting Timeline d) Publishing Movie	Open internet , download and install a movie maker software, and work on it
FEBRUARY	REVISION				
<b>PWT-04/UT-4 (06-08 FEB 2025)</b>					

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
<b>TERM-END EXAM (17-28 MARCH 2025)</b>					
<p><b>Note:</b> For Term-II/Yearly-Exam Note: For Term-II/Yearly-Examination Question-Paper consisting of 10% of 1st term covering significant topics plus entire syllabus of 2<sup>nd</sup> Term.</p>					

**NAVODAYAVIDYALAYASAMITI**

**CLASS – VII**

**SUBJECT: PHYSICAL EDUCATION**

**standing and standard Instructions:**

1. Morning Jogging/Warm Up Exercises/ Mass Drills /Aerobics/Yoga and Meditation.
2. Khelo India Fitness Assessment test should be conducted at the Beginning and End of the Year.
3. Inter House Competitions as per Vidyalaya Calendar of Activities.
4. Holding Periodical Cross-Country Race/ Walk.
5. Trekking and Hiking Activities at least once in a year.
6. Showing Live Matches to Children.
7. Martial Arts/ Self Defence Skills through Resource Persons.
8. Fit India Movement activity should be conducted as per schedule.
9. Special day must be celebrated i.e.,Yoga Day, National SportDay.
10. ICT to be apart of the pedagogy to make learning enjoy able and joyful.

MONTH	NO.OF DAY	NO OF PDS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Physical Activities Prescribed
			Morning (45Minutes)	Evening (90 Minutes)	TopicsAnd Sub-Topics		
APRIL 2024	25	04	1.Jogging and Warm – up2. Calithenics Exercises (Freehand exercises)3. Awareness Generation Rallyon theme “We Fit–India Fit” 4. Meditation practice	Introduce Minor games like: 1. Fire in the mountain2. Train Bogie3. Fill the Jail4. Rama –Ravana5. Dog and Bone6. Circle Kho	1.We are growing 2.What is the relation between food, festivaland celebrations? 3.Importance of pranayama and meditation	English: A Tiger in the House ActivityName :Archery	Player will be give three chances to the target and scor will be recorded.

MONTH	NO.OF DAY	NO OF PDS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Physical Activities Prescribed
			Morning (45Minutes)	Evening (90 Minutes)	TopicsAnd Sub-Topics		
JULY 2024	26	04	1. Running and short sprints 2. Stretching exercise 3. Yoga asana - Surya Namaskar	1. As per the ability, the students are grouped in to different games, like -Kho-Kho, kabaddi, volleyball, Basketball etc. 2. Practice basic skills of Kho - Kho. Inter House Competition of Kho-Kho.	1. Safety and security - how to deal with common injuries 2. Common injuries - identification and treatment. 3. Introduction to first-aid box. 4. Ground measurements for Kho - Kho.	English: The Desert Activity Name: Achieve the Goal, Bethe winner	Circuit Traini (Each Place will be named after famous desserts)
AUGUST 2024	25	04	1. Jogging and warm up 2. Coordination Exercises 3. March past practice 4. Yoga asana, standing asana - Vrikshasana,, Tadasana, Trikonasana	1. Practice of skills and techniques of Athletics and table- tennis 2. Marching formation 3. practice of combat games	1. We and our environment - vectorborne diseases 2. Good environment, concept of good environment 3. Rules and Regulations of Athletics and Table - Tennis.	Mathematics: Fractions and Decimals Activity Name: Concepts of Area and Perimeter	Students asked to measure the length as well as the width of Kho-Kho ground



Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

MONTH	NO.OF DAY	NO OF PDS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Physical Activities Prescribed
			Morning (45Minutes)	Evening (90 Minutes)	TopicsAnd Sub-Topics		
SEPTEMBER 2024	22	04	1. Continuous running practice 2. Developing motor ability 3.Yoga asanaYoga mudra, Viparitkarani, Sarvangasana, Halasana, Shavasana, Pranayama	1.Practicerules and regulations of kabaddi 2.Indoor games like Chess, Carom, and Badminton. 3.Inter House Competition of Kabaddi.	1.Developingmot orability 2.Developing ability of naturally responding tocommand, group work formation, marching formation3. Fundamentals of track and field events– 100m, 200m run, 600mrun/ walketc 4.Asanas and mudra for healthy living	Mathematics: Data Handling Activity Name: Collection And Representatio nof Data Asking students to make charts on games.	Standing Broad Jum
<b>TERM - 1 EXAM</b>							
OCTOBER 2024	24	04	1.Running and warming up2. Exercises with apparatus – dumbbells, Lazium, hoops, ropes, ribbons etc. 3.Meditation /pranayama. 4.Fit India Cycling. 5.Plogging -Run	1.Practice of skills and techniques of handball 2.Inter House Competition of Handball and Shuttle Badminton.	Human Body:1.Process of Growing2. Menstruation3. Myths and misconceptions	Mathematics: Lines & Angles Activity name: Concepts of line, Line Segment and Sports, Cricket - Batting	Asking children prepare cricket pi & Badminton Co

MONTH	NO.OF DAY	NO OF PDS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Physical Activities Prescribed
			Morning (45Minutes)	Evening (90 Minutes)	TopicsAnd Sub-Topics		
NOVEMBER 2024	19	03	1. Running and warming up 2. Exercises with apparatus – dumbbells, Lazium, hoops, ropes, ribbons etc. 3. Meditation /pranayama. 4. Fit India Cycling. 5. Plogging -Run	1.Practice of badminton skills 2. Basics of Athletic	1.Sexual abuse 2.Rules and regulations of the game – handball 3.Ground measurement of handball and Shuttle Badminton.	Project on different ground measurement like football, hockey etc	Asking children’s to prepare long jump pit.
DECEMBER 2024	22	04	1.Jogging and Warming up 2. Rhythmic and Aerobic Exercises Mayurasana Ardhachakrasana 3.Organization of Indigenous/Traditional sports	1.Practice of different games 2. Knowledge and practice skills of Volley ball and Basketball.	1. Effect of exercise on body parts and body systems 2. Importance of physical fitness 3. social health	Science: Motion and Speed Activity name: Slow and Fast	Asking children Run slow and fast in the ground.
JANUARY 2025	13	02	1.Jogging and Warming up 2.Rhythmic and Aerobic Exercises Mayurasana Ardhachakrasana 3.Organization of Indigenous/ Traditional sports	1.Inter House Competition of Volleyball and Basketball. 2.Yoga practice should be done.	1.Sharing experiences of great personalities Role of yoga in daily life 2. Concept of body image	Project on volleyball and basketball ground measurement	Asking children’s to jumps standing jumps and shuttle run.

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

MONTH	NO.OF DAY	NO OF PDS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Physical Activities Prescribed
			Morning (45Minutes)	Evening (90 Minutes)	TopicsAnd Sub-Topics		
FEBRUARY 2025	23	03	1.Jogging and warming up 2.Battery tests(to analyze the performance in the end of the session) 3.YogaAsanas –Sarvangasana, Paschimotanasa 4.Mental FitnessWeek: Puzzle Solving (Sudoku, Crosswords & Wordjumbles)	1. Check the performance level of students. 2. Practice of Wrestling and other martial arts skills. 3.Inter-House competition of Wrestling, Judo, Taekwondo 4.Annual SportsDay	1.Role of motivation in the field of sports 2.Careers in sports 3.Government health services 4.Sports scholarships and awards 5.Outstanding personalities in the althand sports Yearly examination	Geography: Water:- Distribution of water bodies Activity Name: Circular Obstacle Race	Asking children to speak about characteristics of each state of and how it happens seamless.
MAKCH 2025	TERM - 2 EXAM						

NAVODAYA VIDYALAYA SAMITI

CLASS- VII

SUBJECT: ART (VISUAL)

MONTH	NO.OFDAYS	NO.OFPERIODS	Main-Topics and Sub -Topics to be Covered	Medium/ Materials	Projects/Art Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Hands OnActivities Prescribed
APRIL-2024	24	8	<b>DEFINITIONOFFINEARTS</b> Different types of visual arts - Painting, Sculpture, Applied art, Craft,Imagesofpaintings, sculptures, applied art-prints etc., pot painting, pottery making, etc. canbeshowntostudents.	Pencil, Colourand Clay tools.	Sketches of basic Geometrical shapes(2D,3D)	Identification of Art forms andtoolsand materials required to present particular artform.
JULY2024	26	8	<b>Introduction of page layout for preparation of greeting cards.</b>		Sketches of basic Geometrical shapes(2D,3D)	Identification of different coloursand shades.
AUGUST- 2024	25	8	<b>UNDERSTANDINGELEMENTS OF ARTS:</b> Theory and practicalbothshouldbelearnt simultaneously by students. <b>I.</b> Lines : Types and characteristics of line:straight lines, curve lines, horizontal lines, vertical line, circular&angularlines, <b>II.</b> Colour: Primary, secondary and tertiary colours. <b>III.</b> Form:Different types of forms- Man-made forms andGeometrical forms. <b>IV.</b> Observation of nature and Observation of objects- Still life drawings, Drawings of birds, Drawings of Animals The Perspective Theory , Light &Shadecanbetaughtwiththe effective use of the above mentioned areas.	Pencil, Colour and geometrical tools.	Paintings of eastern &western Masters, various styles ofpaintingsand different folk andtraditional forms can be givenfor understanding the content	Drawing miniatures/ Masters Paintings/ Anyone Traditional Artscanbegivenforthe students. Medium of activity:Any medium like Water colour / Postercolour/ Fabriccolour/ Acryliccolourcanbeused )

MONTH	NO.OFDAYS	NO.OFPERIODS	Main-Topics and Sub -Topics to be Covered	Medium/ Materials	Projects/Art Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Hands OnActivities Prescribed
SEPTEMBER-2024	17	6	<p><b>UNDERSTANDING BASIC SHAPES:</b>                      Students can see the geometrical forms in the surroundings of their Vidyalaya. Study of nature colours from different forms. Colour study for still life background drapery and objects. Illustrations of animals, birds with pen and ink.                      Observe keenly and draw natural objects both living and nonliving things such as Trees, Birds, Plants, Flowers, Animals, fruit etc. Outdoor Sketching, Still life compositions can be given</p>	Poster, Water Colour, Pencil OR Digital Tools & Softwares	2D paintings of various Geometrical shapes and figures, Rangoli Competitions OR Computer based Activity	Computer aided tools or applications (Eg. Google Sketchup, Paint, Inkscape)
<b>SEPTEMBER-OCTOBER -2024/TERM-1 EXAMINATION</b>						
OCTOBER -2024	18	6	<p><b>UNDERSTANDING 3D THROUGH CLAY:</b>                      Prepare simple pots, birds or any kind of object by using clay coil/paper pulp, coil etc.                      Lifes study                      Students primarily practice drawing seeing live models.                      i. Study of the human forms.                      ii. Observation                      iii. Figure composition</p>	Clay / Paper Pulp / Pop/Any Other material available in Art Room.	Models 2D and 3D Paintings of daily life activities. Blender software and 3D printing possibilities and be discussed in the class	Demonstration of Paintings and Clay models, models using paper pulp by the students. Students may be showed the latest 3D printing activity videos in Smart class
NOVEMBER- 2024	20	6	<p>iv. Model Drawing                      v. Human anatomy                      vi. Composition of Objects Video presentation/Photos/computer / books may be used.                      Pottery, toys, puppets, local area handicrafts should be introduced and students be given the opportunity to interact with professional and traditional artists.</p>	Clay / Paper Pulp / Pop/Any Other material available in Art Room.	Models 2D and 3D Paintings of daily life activities. Blender software and 3D printing possibilities and be discussed in the class	Demonstration of Paintings and Clay models, models using paper pulp by the students. Students may be showed the latest 3D printing activity videos in Smart class

MONTH	NO.OFDAYS	NO.OFPERIODS	Main-Topics and Sub -Topics to be Covered	Medium/ Materials	Projects/Art Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Hands OnActivities Prescribed
DECEMBER- 2024	20	6	<p><b>UNDERSTANDINGELEMENTS OF ARTS</b>                      Students can be given exercises of printing with colours using actual objects such as, coin, rough surfaces of leaves and trees, pieces of vegetable like potato, ladies' finger etc. and asked to find differentkindsofforms</p> <p><b>Landscapepainting</b>                      HistoryofLandscapePainting.                      Representational, Impressionistic and Abstract.                      Studying the paintings of masters Raja Ravivarma, M.F.Hussain, S M Pandit, D P Roy Chowdari, AmrithaShirigil, S.M.Raza.</p> <p><b>TypesofPaintings</b>                      Kerala mural paintings,                      Kalamkaripaintings,                      KondapalliBommalu,                      LeatherPuppetArt,                      MadhubaniPaintings,NirmalPaintings,                      PattaChitra Paintings, Rajasthani Miniature Painting,                      TanjorePainting,GlassPaintingetc</p>	<p>Different Mediums</p> <p>Pencil, Water Colour, Acrylic Colour</p>	<p>Visual enhancementof elementsinthe subjector topic under pursuit with thehelp of various structures.</p>	<p>Group Activity intheformofpreparation of various structural elements mentioned withreferencetothe storyo rpoem discussed in class.</p>
JANUARY-2025	14	4	<p><b>CRAFTWORK:</b>                      Collagepainting.                      Taking different colour papers, cutting them into different shapes with scissors.                      Usingnewspapers,leafs,etcMaking Collage with items like pencil shavings, wooden ice creamsticks,toothpicks,earbuds, etc.</p> <p><b>VisualArtDesign:</b></p> <ul style="list-style-type: none"> <li>Identify the goal of your poster.</li> <li>IntroductionofDesigns</li> <li>GreetingCardDesigns</li> </ul>	<p>Any suitable material</p>	<p>Models(2D, 3D),Sculpting.</p>	<p>Evaluation can bedonebasedon their observation and creative identity based on minimum craft in the selected medium.                      Models from paper/Clay/ formsheetorother waste materials</p>

MONTH	NO.OFDAYS	NO.OFPERIODS	Main-Topics and Sub -Topics to be Covered	Medium/ Materials	Projects/Art Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Hands OnActivities Prescribed	
			<ul style="list-style-type: none"> <li>• BookCoverDesigns</li> <li>• SweetBoxDesigns</li> <li>• Stickerandstenciling.</li> <li>• CompositionandDesign</li> </ul> Pickarelevantcolourscheme.				
			<b>UNDERSTANDING PRINT AND DESIGN:</b>				
<b>FEBRUARY-2025</b>	<b>20</b>	<b>8</b>	Concept of design and print making. Preparation of Design on card board block and designing and printing on paper. Introduction to design and colouring them in monochrome as well as multi-colour, Stencil Photography with cell phone. Brief study on taking photographs of your school programs. Compose the object with light and shades carefully. And also take photographs in three dimensional angles. And also take photograph at eye level carefully. Introduction to the basics of the four elements of Photography: light, color, composition, and subject.	Poster WaterColour PrintingInk Pencil Colour and Geometrical tools. editing software	Printing of art and shapes.	Printing of design (Kalamkari, BlockPrintingDesign etc., and Stencil Cutting) by the students.  Computer	
<b>MARCH2025</b>			<b>TERM-2EXAMINATION</b>				

**NOTE:**

National Education Policy, 2020 lays emphasis on multi-disciplinary and holistic education across all the subjects with the help of 'in Education' concept in order to ensure simplicity, unity and integrity fall knowledge. Hence, effort may be envisioned a undertaken to encompassart in education concepts across subjects. Students need to submit portfolio of assignments at the end of academic year for Internal Evaluation. Also the students should be encouraged to learn local art forms and its documentations with varic Android and Windows based free audio video editing tools in view of Art integrated learning with other subject areas where e possible.

**NAVODAYA VIDYALAYA SAMITI**

**CLASS:VII SUBJECT: MUSIC**

- Students learn about primary concepts of Music and also learn to correlate with Science and other subjects.
- Students learn Songs in different languages for inculcation of National Integrity as well as explore diversities and develop respect towards different cultures.
- Students explore Local Folk Culture
- Vision of the students is broadened so that their minds will get a chance to think beyond the barriers of so-called subject boundaries and learn the concepts with a broad vision.
- Students are exposed to the integration of latest technology in music.

			<b>Main-Topics and Sub -Topics to be Covered</b>	<b>Projects/Art (Performing) Integrated Pedagogy- Activities Prescribed</b>	<b>Assessment Tool(s)/ Practical Activities Prescribed (Vocal/ Instrumental)</b>
APRIL/JUNE	24	08	1. Revision of Navodaya Song and previous topics.	<p><b>SUGGESTED ACTIVITIES</b></p> <ul style="list-style-type: none"> <li>• Word by word recitation of the song by teacher followed by students</li> <li>• Discussion on the meaning of the song</li> <li>• Recitation of tune by teacher followed by students.</li> </ul> <p><b>(Interdisciplinary Approach)</b></p> <ul style="list-style-type: none"> <li>• Associate the song with our country's rich literary culture and poets.</li> <li>• Students are asked to go through the writings of Rabindranath Tagore.</li> </ul> <p>Students are exposed to our country's heritage and freedom struggle and the contributions of Rabindranath Tagore.</p>	Vocal Performance / Instrumental Performance (Perfection of pitch, tempo and in proper rhythm).
JULY 2024	26	04	<p>2. Alankar practice</p> <p>3. 'Sarejahanse Acha' with its meaning</p> <p>4. 'Hind Deshkeniwasi' song and its meaning</p>	<p>xi) Discussion about lyrics and its meaning</p> <p>xii) Word by word recitation by teacher followed by students</p> <p>xiii) Recitation of tune by teacher followed by students.</p> <p><b>(Interdisciplinary Approach) Civics:</b> Students are exposed to the values of unity in diversity. Students will get an idea about values of Secularism in our Constitution.</p>	Vocal/Instrumental performance Question- Answer about Values of Secularism as contemplated in constitution of India.



		04	5. Introduction to anyone of the percussion instruments. Like Tabla – Dholak	<ul style="list-style-type: none"> <li>• Discussion about percussion instrument and its structure.</li> <li>• Discussion on its use in music systems.</li> </ul> <p><b>(Interdisciplinary Approach) Science:</b> Students are exposed to the techniques of production of sound, timbre, pitch etc.</p> <p>Social Science: Students explore the reference of such instruments in the history.</p>	Question – Answer about the instruments. Students are asked to collect pictures of various percussion instruments used in different music systems.
AUGUST 2024	25	08	1. Definition of Raga. Introduction to raga ‘Sankarabharanam’ OR Rag ‘Bilaval’	<ol style="list-style-type: none"> <li>1. Discussion about structure of Raga and notes used in it.</li> <li>2. A small bandish (Composition) in Raga</li> <li>3. Listen different types of famous Bhajans and light music songs to make the concept clear.</li> </ol> <ul style="list-style-type: none"> <li>• Patriotic song- Telugu</li> </ul>	Question – Answer about theoretical aspects of Raga. Vocal / Instrumental performance. Ability to recognize Raga from phrases of swaras during viva test (Practical Exam)
SEPTEMBER 2024	17	03	1. Folk song in Regional Language.	<ol style="list-style-type: none"> <li>1. Discussion about Song covering the type of song, special occasion when the song is sung, aesthetics of the song etc.</li> <li>2. THEORY: Musical Instrument of Indian Classical Music.(Carnatic/Hindusthani)</li> </ol> <p><b>(Interdisciplinary Approach)</b> 1. Language &amp; Literature</p>	1. Vocal Performance/Instrumental Performance (Perfection of pitch, tempo and in proper rhythm).
				Students learn about the regional Language and dialects. 6. Art & Culture: Students are asked to collect pictures and information regarding different festivals, folk songs and folk dances of their region.	1. Vocal Performance (Recitation of Composition with proper notes, tempo and in proper rhythm)
			3. Community Song In Tamil	<ol style="list-style-type: none"> <li>1. Discussion about lyrics and its meaning</li> <li>2. Word by word recitation by teacher followed by students</li> <li>3. Recitation of tune by teacher followed by students</li> </ol> <p><b>(Interdisciplinary Approach)</b> <b>Civics :</b></p>	3. Project Work - Prepare a chart about population, education ratio, festivals, cousins, main crops, water reservoirs etc. of the state of Tamilnadu.

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

		03		<p>Students are exposed to the art &amp; culture of Tamilnadu.</p> <p>Students are asked to prepare a chart depicting the historical monuments in state of Tamilnadu.</p> <p>Students are asked to collect photographs of the freedom fighters of Tamilnadu with brief Information about their life.</p>	
			<b>23 SEPTEMBER - 4 OCTOBER 2024 TERM - I EXAM</b>		
OCTOBER 2024	18	06	<p>Bhajan- 'Raghupati raghava'</p> <p>Bhajan- 'Vaishnav Janato'</p>	<ol style="list-style-type: none"> <li>2. Discussion about the song and its meaning</li> <li>3. Discussion about Human values</li> <li>4. Recitation of the song by teacher followed by the students</li> </ol> <p><b>(Interdisciplinary Approach)</b></p> <ol style="list-style-type: none"> <li>4. VALUE EDUCATION Students explore human values as described in the Bhajan</li> <li>5. SOCIAL SCIENCE: Collect information about lives and deeds of various saints and leaders who have followed the values in their life and set examples for others.</li> </ol>	<p>4. Vocal / Instrumental Performance Simple question – Answer about Raga used in the bhajan</p>
NOVEMBER 2024	20	02	<p>Introduction to Tala Rupaka in Carnatic system OR Tala: Dadra in Hindusthani system. Sarva Dharma prathana – Tu hi ram hai.....</p>	<ol style="list-style-type: none"> <li>2. Discussion about importance of Taal</li> <li>3. Exercise for counting Matras of Dadra OR Rupaka tala (Carnatic Music) with clapping &amp; stamping</li> <li>4. Recitation of Bols (syllables) of the talas. (Interdisciplinary Approach) Mathematics: 5. Students may be exposed to the calculation and divisions of musical beats and its cycle.</li> </ol>	<p>2. Question – Answer about theoretical aspects of Tala. Skill of clapping and stamping in Tala Recitation of Bols (Syllables of Tala)</p>
		04	<p>A poem in regional language in your own music</p>	<ol style="list-style-type: none"> <li>5. Discussion about lyrics and its meaning</li> <li>6. Word by word recitation by teacher followed by students <ul style="list-style-type: none"> <li>• Recitation of tune by teacher followed by students</li> </ul> </li> </ol>	<p>Vocal/Instrumental Performance. Encourage students to recite such poems in their own tune</p>

DECEMBER 2024	20	06	<p>Introduction to Tala 'MisraChappu' in Carnatic system OR Rupak in Hindusthani system.</p>	<p>1. Discussion about importance of Taal 2. Exercise for counting Matras of Rupak Tal OR MisraChappu tala (Carnatic Music) with clapping &amp; stamping 3. Recitation of Bols (syllables) of the talas.</p> <p><b>(Interdisciplinary Approach)</b></p> <ul style="list-style-type: none"> <li>Mathematics: Students are exposed to the calculation and divisions of musical beats and its cycle.</li> </ul>	<p>Question – Answer about theoretical aspects of Tala Skill of clapping and stamping in Tala Recitation of Bols (Syllables of Tala) Students are asked to find out more songs in the same tala.</p>
JANUARY 2025	14	04	<p>1. Introduction to the musical instrument: 'Violin'- King of musical instruments.</p> <p>Brief note on the history and making of 'Violin'</p>	<p>1. Discussion about the structure of the Instrument 2. Science behind the production of sound from the Instrument <b>(Interdisciplinary Approach)</b> Physics : Concept of frequency, tonality, timbre, different quality of sound (Bass, treble etc.) are easily explained while teaching the making of the instrument.</p> <p>3. General Studies: Collection of Photographs of eminent artists related with said instruments and brief information of the artist in the form of charts or scrap book.</p>	<p>Question – Answer about making of the instrument.</p> <p>Question – Answer about terms of Science like frequency, effect of the thickness, length and type of material on production of sound etc. Drawing labelled diagram of the instruments.</p>
FEBRUARY 2025	24	08	<p>4. Brief note on the origin and evolution of keyboard synthesizer</p> <ul style="list-style-type: none"> <li>Musical Instrument Digital Interface (MIDI)</li> </ul>	<p>1. Discussion about electronics and music. 2. Science behind the production of sound from the Instrument 3. Making of any Indian stringed Instrument Eg: Veena/Sitar <b>(Interdisciplinary Approach)</b> 4. Physics : Concept of MIDI, frequency, tonal manipulation etc.,</p>	<p>Question – Answer about electronic music instruments. Question – Answer about terms of Science like frequency, pitch etc., Students are asked to collect data on recent development of electronic musical instruments</p>
<b>REVISION OF ALL THE TOPICS &amp; PRACTICAL EXAMS (VOCAL / INSTRUMENTAL)</b>					
MARCH 2025	12		<b>ANNUAL EXAMINATION</b>		

**Note:**

1. As per NEP 2020 Art Integrated Learning (AIL) is a teaching-learning process which is based on learning 'through the arts' and 'with the arts'. One of the core principles guiding the education system, according to the policy, would be the 'extensive use of technology in teaching and learning. In order to maximize the usage of ICT, a well-equipped Music Room with computer, Internet connection, required instruments, software and other facilities are to be ensured.
2. Two workshops on music (Vocal/Instrumental) may be conducted with the help of professional artists to enable children to perform on the stage.
3. Weekly coaching classes may be conducted (vocal/instrumental) with the help of professionals in the respective field.

**SPLIT UP OF SYLLABUS  
CLASS VIII**

NAVODAYA VIDYALAYA SAMITI  
CLASS VIII SUBJECT : ENGLISH

**CLASS: VIII**

**SUBJECT: English**

S. No.	Sections	Marks allotted
1	Section A - Reading	15 Marks
2	Section B - Writing	15 Marks
3	Section C - Grammar	10 Marks
4	Section D - Literature	40 Marks
	<b>Total Marks</b>	<b>80 Marks</b>
	Internal Assessment	20 Marks
	<b>Grand Total</b>	<b>100 Marks</b>

Month	No. of Days	No. of Periods	Main Topics and Sub – Topics to be Covered	Activities/Projects/Experiments to be held/Specific Assessment Tools (Suggested)
APRIL 2024	21	24	<p><b>Honey Dew-Poem</b> 1.The Ant and the Cricket</p> <p><b>Honey Dew-Prose</b> 1.The Best Christmas Present in the World</p> <p><b>It So Happened</b> • How the Camel Got His Hump</p> <p><b>Grammar &amp; Composition</b> 1.Writing Informal letters- (Request/Complaint/Enquiry/Application) • Notice Writing</p> <p>3.Use of Past Tense- simple, progressive and perfect tenses</p> <p>4.Nouns and Adjectives</p>	<p>Preparation of a collage of War photos and newspaper cuttings,</p> <p>Consequences of war- Discussion in groups and group presentations,</p> <p>Story narration, role play</p> <p>Carol songs and Videos on Christmas Celebration</p> <p>Role-Play for Ant and the Cricket,</p> <p>Story Making</p>

Month	No. of Days	No. of Periods	Main Topics and Sub – Topics to be Covered	Activities/Projects/Experiments to be held/Specific Assessment Tools (Suggested)
JULY 2024	26	30	<b>HoneyDew-Prose</b> 2.TheTsunami <b>HoneyDew-Poem</b> 2.GeographyLesson <b>ItSoHappened</b> <ul style="list-style-type: none"> <li>• 2.Children at Work</li> </ul> <b>Grammar&amp;Composition</b> 1. Active and Passive Voice. 2.ReportedSpeech 3.StoryWriting 4.PhrasalVerbs	Projects on Natural Disasters- Earthquake, Avalanche, Flood, Landslide etc. Diary entry, anecdot Skits on Child labour, Survey in their village about child labour, RTE-Act Discussion
			Periodic Written Test- 1/UT1– From 26April 2024 to 29April 2024	
AUGUST 2024	22	24	<b>HoneyDew-Prose</b> 3.GlimpsesofthePast <b>ItSoHappened</b> <ul style="list-style-type: none"> <li>• 3. TheSelfishGiant</li> </ul> <b>Grammar&amp;Composition</b> 1.Use ofhave to/has to/hadto 2.Idioms andPhrases 3. Differentiating simplepastand Presentperfect 4.Re-Arrangingjumbledwords 5.Subject-Verbageement 6. UnseenPassage 7.FormsofVerbs	Comic creation, story writing Conduct of Mock interviews, significance of freedom-essay writing, Experience sharing of children playing prank sand its effects.
			Periodic Written Test 2 /UT2 – From 8 August 2024 to 10 August 2024	
SEPTEMBER 2024	17	20	<b>HoneyDew-Poem</b> 3. TheLastBargain <b>HoneyDew-Prose</b> 4. BepinChoudhury'sLapseof Memory <b>ItSoHappened</b> 4.TheTreasureWithin <b>Grammar&amp;Composition</b> 1.Nounforms 2.Phrases 3.Transitiveand intransitive verbs 4.IndirectSpeech	Role-play Making tunes for the poem Short films on poems Narration of flight journey experience. Self-Awareness Survey with SEL components Vocabulary building activities CCT based unseen passage
			TERM-I EXAM – From 23September 2024 to 4 October 2024	

Month	No. of Days	No. of Periods	Main Topics and Sub – Topics to be Covered	Activities/Projects/Experiments to be held/Specific Assessment Tools (Suggested)
OCTOBER 2024	17	20	<b>HoneyDew-Prose</b> <ul style="list-style-type: none"> <li>The Summit Within</li> </ul> <b>It So Happened</b> 5. Princess September <b>Grammar &amp; Composition</b> 1. Use of all and both 2. Adjectives (degrees of comparison) 3. Participles	Relevant videos on Mountaineering Picture Album of famous Mountaineers Holiday project:
NOVEMBER 2024	20	24	<b>HoneyDew-Poem</b> 1. The School Boy <b>HoneyDew-Prose</b> 2. This is Jody's Fawn  3. Use of Simple Past and Past Continuous 4. Words indicating sounds 5. Use of 'enough' 6. Use of verb forms	Interview with a teacher from the old school/a physically challenged person of the locality during holidays.  Book review on short stories Bio sketch, informal letter writing
			Periodic Written Test 3 /UT3 – From 12 December 2024 to 14 December 2024	
DECEMBER 2024	18	20	<b>It So Happened</b> 1. The Fight <b>Grammar &amp; Composition</b> 1. Formation of nouns adding suffixes 2. Formation of adverbs from adjectives. 3. Revision of Grammar and composition	Write a story that you heard about temple/Hill/Forest/Pond of your locality.  Description of pets. Cruelty to animals-discussion Experience sharing of quarrels
JANUARY 2025	14	16	<b>HoneyDew-Poem</b> 7. On the Grasshopper and the Cricket <b>HoneyDew-Prose</b> 7. A Visit to Cambridge <b>It So Happened</b> 8. Jalebis <b>Grammar &amp; Composition</b> 1. Expressing future in different ways- will, is/am/are+going to, Simple present	Speak about the superstitions existing at home/locality.  Dialog writing  Write a recipe of making Jalebis consulting with your parents.  Preparation of dictionary with words from the lessons.
			Periodic Written Test 4 /UT4 – From 06 February 2025 to 08 February 2025	



Month	No. of Days	No. of Periods	Main Topics and Sub – Topics to be Covered	Activities/Projects/Experiments to be held/Specific Assessment Tools (Suggested)
FEBRUARY 2025	21	24	<b>HoneyDew-Prose</b> 8. A Short Monsoon Diary  <b>It So Happened</b> 11. Ancient Education System in India  <b>Grammar &amp; Composition</b> 1. Article Writing	Book Review on morals stories based on Upanishads  Prepare a list of Upanishads/Vedas available in the library.  Tenses, phrases, diary writing
MARCH 2025	17	20	Revision for Term-II Exam	
<b>TERM- II EXAM - From 17 March 2025 to 28 March 2025</b>				
Deleted contents: (1) Glimpses of the past (2) Macavity the mystery cat (3) A visit to Cambridge (4) When I set out for Lyonesse (5) The great stone face part-I & II (6) The open Window (7) The comet part I & II  Note: 1. Relevant unit from work book may be taken up. 2. Classroom transactions may be corresponding to NEP-2020.				

## नवोदय विद्यालय समिति

पाठ्यक्रम-विभाजन - 2024-25

कक्षा- 8विषय-हिंदी' अ

वार्षिक परीक्षा हेतु अंक भार विभाजन			
खंड 'अ'			
क्रमांक	विषय वस्तु एवं परीक्षा हेतु अंक विभाजन	उपभारांक	कुल भार
1	अपठितांश- [क] अपठित गद्यांश 1+1+1+1+1 [ख] अपठित काव्यांश 1+1+1+1+1	05 05	10
2	व्याकरण पाठ्यक्रम अनुसार- 1×20	20	20
3	पाठ्यपुस्तक- वसंत भाग- 3 [क] गद्यांश आधारित प्रश्न 1+1+1+1+1 गद्य खंड आधारित प्रश्न 2+2+2+2+2 [ख] काव्यांश आधारित प्रश्न 1+1+1+1+1 काव्य खण्ड आधारित प्रश्न 2+2+2+2+2	05 10 05 10	20
4	भारत की खोज [पूरक पुस्तक] [क] बहुविकल्पीय प्रश्न 1×8 [ख] लघु उत्तरीय प्रश्न 2×2	08 04	12
5	विचार-अभिव्यक्ति [क] पत्र लेखन [विकल्प सहित] [ख] निबंध लेखन [विकल्प सहित]	04 04	08
	कुल		80
	आंतरिक मूल्यांकन		20
	सामयिक आकलन	05	
	बहुविध आकलन	05	
	पोर्टफोलियो	05	
	विषय समृद्धि क्रियाकलाप	05	
	कुल योग		100

वार्षिक अंक वर्गीकरण प्रारूप

सामयिक आकलन	बहुविध आकलन	पोर्टफोलियो	विषय समृद्धि क्रियाकलाप	अर्धवार्षिक परीक्षा	कुल योग
05	05	05	05	30	50

पाठ्यक्रम-विभाजन

माह	कार्य दिवस	कालांश	पाठकानाम /विषयवस्तु	विषयसंबंधित क्रियाकलाप
अप्रैल 2024	24	30	<b>वसंत भाग-3</b> 1.लाखकी चूड़ियां [कहानी]-कामतानाथ 2.बस की यात्रा- (व्यंग्य ) परसाई हरिवंश <b>व्याकरण -भाषा</b> वर्ण विचार: संक्षिप्त परिचय विकारी शब्द: संज्ञा और सर्वनाम अविकारी शब्द अपठित गद्यांश अपठित पद्यांश	मशीनीकरण से उत्पन्न प्रभाव का अध्ययन कर सूची निर्माण करना
			<b>आवधिक परीक्षा-1 (26 से 29 अप्रैल 2024)</b>	
जुलाई 2024	26	32	वसंत भाग-3 3.दीवानों की हस्ती - ( कविता) भगवतीचरणवर्मा चिड़िया (कविता)- रामदरश मिश्र (केवल पढ़ने के लिए) <b>भारत की खोज-</b> अहमदनगर का किला, तलाश शब्द रचना: संरचना और अर्थ के आधार पर पत्र-लेखन	शब्द वर्गीकरण चार्ट तैयार करना शहीदों के संघर्षों पर चर्चा करते हुए उनके नामों एवं कार्यों का उल्लेख करना
अगस्त 2024-4	25	31	<b>वसंत भाग-3</b> 4.भगवान के डाकिए- दिनकर सिंह रामधारी (कविता) कदम मिल कर चलना होगा ( कविता) अटल बिहारी वाजपेई [केवल पढ़ने के लिए] 5.क्या निराश हुआ जाए- (निबंध) द्विवेदी हजारी प्रसाद <b>भारत की खोज -</b>	शिष्टाचार संबंधी नियमों का विवरण- चार्ट निर्माण करना

माह	कार्य दिवस	कालांश	पाठकानाम /विषयवस्तु	विषयसंबंधित क्रियाकलाप
			सिंधु घाटी की सभ्यता - आर्यों का आना से अशोक तक <b>व्याकरण:</b> कारक और क्रिया अपठित पद्यांश पत्र-लेखन	
			<b>आवधिक परीक्षा-2 (08 से 10 अगस्त 2024)</b>	
सितंबर2024	17	20	वसंत भाग-3 6.यह सबसे कठिन समय नहीं- कविता जया जादवानी पहाड़ से ऊँचा आदमी [जीवनी] सुभाष ठाडे [केवल पढ़ने के लिए] 7.कबीर की साखियां [कविता]- कबीर भारत की खोज: युगों का दौर <b>व्याकरण</b> संधि वाक्य: अर्थ और रचना के आधार पर प्रकार मुहावरे एवं लोकोक्तियां	प्रेरक विभूतियों के जीवन प्रभावों का वर्णन कबीर की साखियों का सस्वर वाचन
			<b>अर्द्धवार्षिक परीक्षा (23 सितम्बर से 04 अक्टूबर 2024)</b>	
अक्टूबर2024	21	24	वसंत भाग-3 8.सुदामाचरित [कविता]- नरोत्तमदास भारत की खोज- नई समस्याएं <b>व्याकरण</b> लिंग, वचन समास	सिनेमा में आए हुए क्रमिक परिवर्तन व तकनीकी ज्ञान के प्रयोग का वर्णन
नवंबर- 2024	20	23	वसंत भाग-3 9.जहां पहिया है ( रिपोर्टाज ) -पी साईनाथ पिता के बाद- ( कविता ) मुक्ता [केवलपढ़ने के लिए] भारत की खोज- अंतिम दौर-एक <b>व्याकरण</b> विशेषण और उसकी अवस्थाएं निबंध-लेखन	साइकिल के प्रयोग के लाभ व पर्यावरणीय प्रभावों का अध्ययन

माह	कार्य दिवस	कालांश	पाठकानाम /विषयवस्तु	विषयसंबंधित क्रियाकलाप
दिसंबर-2024	20	23	वसंत भाग-3 10.अकबरी लोटा (कहानी) अन्नपूर्णानंद वर्मा 11.सूर के पद -कविता भारत की खोज- अंतिम दौर- दो <b>व्याकरण-</b> क्रिया	गांधी जी के द्वारा किए गए आंदोलनों का ऐतिहासिक महत्व व प्रभावों का अध्ययन करना स्वतंत्रता संघर्षों पर चर्चा करते हुए उनके महत्व पर प्रकाश डालना
<b>आवधिक परीक्षा-3 (12 से 14 दिसम्बर 2024)</b>				
जनवरी -2025	14	16	वसंत भाग-3 12.पानी की कहानी- (लेख) तिवारी रामानंद हम पृथ्वी की संतान (कविता) -प्रभु नारायण ( केवल पढ़ने के लिए) भारत की खोज- तनाव <b>व्याकरण-</b> काल और कारक	पानी के महत्व को ध्यान में रखते हुए उसके संरक्षण के उपाय समझाना
फरवरी2025-5	24	26	वसंत भाग-3 13. बाज और सांप -निर्मल वर्मा कहानी भारत की खोज- दो पृष्ठभूमियाँ - भारतीय और अंग्रेजी	गांधीजी का संपूर्ण जीवन परिचय
<b>आवधिक परीक्षा-4 (06 से 08 फरवरी 2025)</b>				
माँ			पुनरावृत्ति [विद्यार्थियों की आवश्यकता अनुसार]	
<b>वार्षिक परीक्षा (17-28 मार्च 2025)</b>				

- प्रश्नपत्र दो खंडों 'अ' और 'ब' में विभक्त होगा।
- खंड 'अ' में 45 वस्तुपरक प्रश्न पूछे जायेंगे, जिनमें से केवल 40 प्रश्नों के ही उत्तर देने होंगे।
- खंड 'ब' में वर्णनात्मक प्रश्न पूछे जायेंगे। प्रश्नों में उचित आंतरिक विकल्प दिए जायेंगे।
- भारांक- 80 (वार्षिक परीक्षा) + 20 (आंतरिक परीक्षा)

## नवोदय विद्यालय समिति

पाठ्यक्रम-विभाजन - 2024-25

कक्षा : आठवीं

विषय : हिंदी (पाठ्यक्रम - ब )

क्रम	अध्याय / इकाई का नाम	उप भारांक	भारांक						
01	(अ) अपठित गद्यांश (आ) अपठित पद्यांश	5x1= 5 5x1=5	10						
02	व्याकरण –पाठ्य पुस्तक से पाठ्यक्रमानुसार	20x1=20	20						
03	<b>दूर्वा भाग -3</b>								
	(अ) पठित गद्यांश पर आधारित	1+1+1+1+1=5	10						
	(आ) पठित पद्यांश पर आधारित	1+1+1+1+1=5							
	पाठ्य पुस्तक पर आधारित प्रश्न -	8x1=8	08						
	बहुविकल्पीय प्रश्न-	6X2=12							
	लघु उत्तरीय प्रश्न –	6X2=12	24						
	अ) गद्य खंड -								
	(आ) पद्य खंड -								
04	रचनात्मक लेखन – (अ) पत्र लेखन / प्रार्थना पत्र (आ) निबंध लेखन	1X4=4 1x4=4	08						
	<b>कुल अंक</b>	<b>80</b>	<b>80</b>						
	<b>आंतरिक मूल्यांकन</b>	<b>20</b>							
	<b>समेकित योग</b>	<b>100</b>							
<b>समेकित योग</b>					<b>100</b>				
PWT-1	PWT-2	TERM-1	INT. ASS.	TOTAL	PWT-3	PWT-4	TERM-2	INT. ASS.	TOTAL
40	40	80	20	100	40	40	80	20	100

माह का नाम	दिनों की संख्या	कालांशों की संख्या	पाठ का नाम / निर्धारित विषयवस्तु	क्रियाकलाप / परियोजना कार्य / परीक्षा
अप्रैल 2024	24	30	दूर्वा भाग -3 1- गुड़िया (कुँवर नारायण) 2- दो गौरैया (भीष्म साहनी) व्याकरण – व्याकरण की परिभाषा, परिचय,स्वर और व्यंजन,स्रोतों के आधार पर शब्द के भेद, 'र' के विभिन्न रूप, नुक्ता	विषय सम्बद्ध क्रिया कलाप
<b>आवधिक परीक्षा -1</b>				
जुलाई 2024	26	32	दूर्वा भाग -3 3- चिट्ठियों में यूरोप (सोमदत्त) 4- ओस (सोहनलाल द्विवेदी) व्याकरण - संज्ञा,लिंग,विलोम शब्द, पत्र लेखन	विषय सम्बद्ध क्रिया कलाप
अगस्त 2024	25	31	दूर्वा भाग -3 5- नाटक में नाटक (मंगल सक्सेना) 6- सागर यात्रा (कर्नल टी.सी.एस.चौधरी) 7- उठ किसान ओ (त्रिलोचन) व्याकरण -वचन,पर्यायवाची	विषय सम्बद्ध क्रिया कलाप
<b>आवधिक परीक्षा -2</b>				
सितंबर 2024	17	20	दूर्वा भाग -3 8-सस्ते का चक्कर (सूर्यबाला) 9-एक खिलाड़ी की कुछ यादें (केशवदत्त) 10-बस की सैर (वल्ली कानन) व्याकरण -उपसर्ग, प्रत्यय,मुहावरे, अपठित गद्यांश, अपठित पद्यांश, निबंध लेखन पूर्व पठित पाठ्यक्रम का पुनरावर्तन	विषय सम्बद्ध क्रिया कलाप
<b>अर्द्ध वार्षिक परीक्षा</b>				

माह का नाम	दिनों की संख्या	कालांशों की संख्या	पाठ का नाम / निर्धारित विषयवस्तु	क्रियाकलाप / परियोजना कार्य / परीक्षा
अक्टूबर 2024	21	24	दूर्वा भाग -3 11- हिंदी ने जिनकी जिंदगी बदल दी - मारिया नेज्यैशी (जय प्रकाश पांडेय) व्याकरण -सर्वनाम	
नवंबर 2024	20	23	दूर्वा भाग -3 12- आषाढ़ का पहला दिन (भवानी प्रसाद मिश्र) 13- अन्याय के खिलाफ़ (चकमक से) व्याकरण - विशेषण	
दिसंबर 2024	20	23	दूर्वा भाग -3 14-बच्चों के प्रिय श्री केशव शंकर पिल्लै (आशा रानी व्होरा) 15- फ़र्श पर (निर्मला गर्ग) व्याकरण – क्रिया, काल, श्रुतलेख	विषय सम्बद्ध क्रिया कलाप
<b>आवधिकपरीक्षा-3) 12-14 दिसंबर 2024)</b>				
जनवरी 2025	14	16	दूर्वा भाग -3 16- बूढ़ी अम्मा की बात (संकलित) 17-वह सुबह कभी तो आएगी (सलमा) व्याकरण - अपठित गद्यांश, अपठित पद्यांश	विषय सम्बद्ध क्रिया कलाप
फरवरी 2025	24	26	दूर्वा भाग -3 18-आओ पत्रिका निकालें (अतिरिक्त पठन के लिए -सर्वेश्वर दयाल सक्सेना) 19-आहवान (अतिरिक्त पठन के लिए -अशफ़ाक उल्ला खाँ) व्याकरण – पत्र लेखन, निबंध लेखन	विषय सम्बद्ध क्रिया कलाप
<b>आवधिकपरीक्षा-4 )06-08 फरवरी 2025)</b>				



माह का नाम	दिनों की संख्या	कालाशों की संख्या	पाठ का नाम / निर्धारित विषयवस्तु	क्रियाकलाप / परियोजना कार्य / परीक्षा
मार्च 2025			पूर्व पठित पाठ्यक्रम का पुनरावर्तन वार्षिक परीक्षा	

**विषयसंवर्धकक्रियाकलाप**  
**Subject Enrichment Activities**

माह का नाम	पाठ का नाम	क्रियाकलाप	आंतरिक मूल्यांकन
अप्रैल 2024	a) गुड़िया (कुँवर नारायण) b) दो गौरैया (भीष्म साहनी)	1-अपने मनपसंद खिलौने के बारे में लिखिए । 2-अपने गाँव / शहर में दिखने वाले पशु-पक्षियों के बारे में जानकारी एकत्रित करें ।	1 बहुविकल्पीय प्रश्न - 10 2 पोर्टफोलियो -10 3 श्रवण / वाचन -10
जुलाई 2024	3 -चिट्ठियों में यूरोप (सोमदत्त) 4-ओस (सोहनलाल द्विवेदी)	1-अपने मनपसंद देश की जानकारी एकत्रित करके मित्र को पत्र लिखिए । 2-मौसम / ऋतुओं की सूची बनाकर पसंदीदा मौसम के बारे में चर्चा करें ।	1 बहुविकल्पीय प्रश्न - 10 2 पोर्टफोलियो -10 3 श्रवण / वाचन -10
अगस्त 2024	5-नाटक में नाटक ( मंगल सक्सेना ) 6-सागर यात्रा (कर्नल टी .सी . एस . चौधरी ) 7-उठ किसान ओ (त्रिलोचन)	1-पाठ का मंचन (अन्य नाटक / एकांकी ) करें । 2-अन्य साहसिक यात्राओं, कार्यों के बारे में जानकारी संग्रह करके कक्षा में सुनाइए । 3- वर्षा से संबंधित अन्य कविता कक्षा में सुनाइए / वर्षा पर स्वयं कोई कविता लिखिए ।	1 बहुविकल्पीय प्रश्न - 10 2 पोर्टफोलियो -10 3 श्रवण / वाचन -10

<p>सितंबर 2024</p>	<p>8 -सस्ते का चक्कर (सूर्यबाला) 9-एक खिलाड़ी की कुछ यादें (केशवदत्त) 10-बस की सैर(वल्ली कानन)</p>	<p>1-अपने / साहसिक बाल पुरस्कृत बच्चों से जुड़ी घटनाओं की अभिव्यक्ति करें। 2-अपने पसंदीदा खेल के बारे में जानकारी एकत्रित करके मित्रों से चर्चा करें। 3-आपके घर पर बचत करने के कौन -कौन से तरीके हो सकते हैं? उनकी सूची बनाइए।</p>	<p>1 बहुविकल्पीय प्रश्न - 10 2 पोर्टफोलियो -10 3 श्रवण / वाचन -10</p>
<p>अक्टूबर 2024</p>	<p>11- हिंदी ने जिनकी जिंदगी बदल दी -मारिया नेज्जैशी (जय प्रकाश पांडेय)</p>	<p>1-विदेशी हिंदी साहित्यकारों की सूची बनाइए एवं उनके द्वारा हिंदी में किए गए योगदान को लिखिए ।</p>	<p>1 बहुविकल्पीय प्रश्न -10</p>
<p>नवंबर 2024</p>	<p>12- आषाढ़ का पहला दिन (भवानी प्रसाद मिश्र) 13- अन्याय के खिलाफ़ (चकमक से)</p>	<p>2-वर्षा से संबंधित अपने प्रदेश के कवि की रचना के बारे में अभिव्यक्ति करें । 3-अपने क्षेत्र / प्रदेश / देश के स्वतंत्रता सेनानियों के योगदान के बारे में लिखें।</p>	<p>1 पोर्टफोलियो -10 2 श्रवण / वाचन -10</p>
<p>दिसंबर 2024</p>	<p>14- बच्चों के प्रिय श्री केशव शंकर पिल्लै (आशा रानी व्होरा) 15- फ़र्श पर (निर्मला गर्ग)</p>	<p>1-अपने शौक से संबंधित वस्तुओं को संग्रह करने में आने वाली मुश्किलों के बारे में अभिव्यक्ति करें। 2-प्रकृति /अपने आस-पास की किसी मनपसंद विषय पर स्वयं कविता लिखिए।</p>	<p>1 बहुविकल्पीय प्रश्न - 10 2 पोर्टफोलियो -10 3 श्रवण / वाचन -10</p>

<p style="text-align: center;"><b>जनवरी 2025</b></p>	<p>16- बूढ़ी अम्मा की बात (संकलित)</p> <p>17- वह सुबह कभी तो आएगी (सलमा)</p>	<p>1 -पेड़ /जंगलों के महत्व पर निबंध लेखन कीजिए। .</p> <p>2 -प्राकृतिक / मानव निर्मित आपदाओं की सूची बनाइए और उनके बचाव के कौन-कौन से तरीके हैं उनके बारे में जानकारी एकत्रित करके लिखिए।</p>	<p><b>1 बहुविकल्पीय प्रश्न - 10</b></p> <p><b>2 पोर्टफोलियो -10</b></p> <p><b>3 श्रवण / वाचन -10</b></p>
<p style="text-align: center;"><b>फरवरी 2025</b></p>	<p>18 -आओ पत्रिका निकालें (अतिरिक्त पठन के लिए - सर्वेश्वर दयाल सक्सेना)</p> <p>19- आह्वान (अतिरिक्त पठन के लिए -अशफ़ाक उल्ला खाँ)</p>	<p>1-अपने विद्यालय में स्वयं हिंदी पत्रिका को तैयार करें ।</p> <p>2-देश के अन्य स्वतंत्रता संग्राम सेनानियों की कविताओं को पढ़ें ।</p>	<p><b>1 बहुविकल्पीय प्रश्न - 10</b></p> <p><b>2 पोर्टफोलियो -10</b></p> <p><b>3 श्रवण / वाचन -10</b></p>

**नोट -**

- (PWT के साथ ) आंतरिक मूल्यांकन हेतु विषयसंवर्धन क्रियाकलापों के संदर्भ में शिक्षक अपने स्तर पर स्वेच्छानुसार वेषय देकर मूल्यांकन कर सकते हैं ।

2 -संवाद / वार्तालाप संबंधित क्रियाकलाप अवश्य कराएँ ।

3 – कला / कहानी / खेल / खिलौना समेकित शिक्षणशास्त्र का यथा संभव शिक्षण में प्रयोग करें ।

**NAVODYA VIDYALAYA SAMITI**

**Split of Syllabus 2024-25**

**CLASS: -VIII**

**SUBJECT-MATHEMATICS**

Chapter No.	Name of The Chapter / unit	Marks	Periods
<b>TERM-01</b>			
1	RATIONAL NUMBERS	12	10
9	ALGEBRAIC EXPRESSIONS AND IDENTITIES	16	12
3	UNDERSTANDING QUADRILATERALS	12	18
2	LINEAR EQUATION IN ONE VARIABLE	14	16
6	SQUARES AND SQUARE ROOTS	14	14
7	CUBE AND CUBER OOTS	12	10
	Total	80	80
	Convert into 50	50	
	Internal Assessment	50	
	GrandTotal	100	
	Term-I (Weightage)	40%	
<b>TERM-02</b>			
11	MENSURATION	12	18
14	FACTORISATION	11	10
08	COMPARING QUANTITIES	10	17
05	DATA HANDLING	05	10
15	INTRODUCTION TO GRAPHS	05	07
12	EXPONENTS AND POWER	05	08
13	DIRECT AND INVERSE PROPORTION	08	10
TERM-I 30%	TERM I SYLLABUS	24	30% OF TERM-I SYLLABUS
	Total	80	80
	Convert in to 50	50	
	Internal Assessment	50	
	Grand Total	100	
	Term-II (Weightage)	60%	

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

MONTH	NO. OF DAYS	NO. OF PERIODS	Weightage of Marks for the Unit/ Chapter	Units/sub-units/ Topics/ Chapters to be covered	Details of Activity/Practical/ Projects to be given	
APRIL- 2024	22	10 12	12 16	<p>Review of Previous number systems, Operations and properties there of: Chapter: RATIONAL NUMBERS: Rational numbers, Properties of Rational Numbers, Properties of 0 and 1, Multiplicative Inverse or Reciprocals, Operations of Rational Numbers. Chapter: ALGEBRAIC EXPRESSIONS AND IDENTITIES: Expressions, Number Line and an expression, Addition and Subtraction of Algebraic Expressions, Multiplication of Algebraic Expressions, multiplying a Monomial by a Monomial, Monomial by a Binomial, Monomial by a Trinomial, Binomial by a Binomial and Binomial by a Trinomial Products using Identities.</p>	<p><b>ACTIVITY-1</b> Using number line locate rational numbers Between two rational numbers.</p>	PWT-1 (26-29 APRIL 2024)
JULY-2024	26	18 08	12 14	<p><b>Chapter: UNDERSTANDING QUADRILATERALS:</b> curves, Diagonals, Convex and Concave Polygons, Regular and Irregular Polygons, Sum of the measures of the exterior angles of a Polygon. Kinds of Quadrilaterals, Trapezium, Kite and Parallelogram, Elements of a Parallelogram, Properties of a Parallelogram, Some special Parallelograms, Rhombus, Square and Rectangle. Properties of these Quadrilaterals. <b>Chapter: LINEAR EQUATIONS IN ONE VARIABLE:</b> Introduction, its word problems,</p>	<p><b>ACTIVITY-2</b> To fold a paper 8 times in any way and unfold it then locates various concave and convex polygons.</p>	
AUGUST-2024	22	08 14	14	<p><b>LINEAR EQUATIONS IN ONE VARIABLE(continue)</b> solving equations having the variable on bothsides, Reducing equations to simpler form.  <b>Chapter: SQUARES AND SQUARE ROOTS:</b> Perfect Squares, Properties of square numbers, Patterns, Numbers between square numbers, adding odd numbers, A sum of consecutive natural numbers, Product of two consecutive even or odd natural numbers, Some more Patterns in square numbers, Finding the square of a number, Other Patterns in square, Pythagorean Triplets, Square roots, Finding square roots by repeated Subtraction, through Prime Factorization, by Division method.</p>	<p><b>ACTIVITY-3</b> To solve linear equation by paper cutting and pasting.</p> <p><b>ACTIVITY-4</b> To design number patterns and write their next ten steps</p>	Periodic Written Test-02- 08 August 2024 to 10 August 2024
SEPTEMBER 2024	16	10 06	12	<p><b>Chapter: CUBE AND CUBE ROOTS:</b> Cubes, Patterns, Smallest Multiple that is a perfect cube, Cube roots, Cube roots through prime factorization method <b>Revision for Term 1</b></p>	<p><b>ACTIVITY - 5</b> Working with Patterns on Cube and Cube roots</p>	

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

MONTH	NO. OF DAYS	NO. OF PERIODS	Weightage of Marks for the Unit/Chapter	Units/sub-units/ Topics/ Chapters to be covered	Details of Activity/Practical/ Projects to be given	
<b>HALF YEARLY EXAMINATION (23 SEPT 2024 - 04 OCT 2024)</b>						
OCTOBER 2024	18	18	12	<b>Chapter: MENSURATION:</b> Introduction, Area of a general Polygon, Solid shapes, Surface area of Cube ,Cuboids and Cylinder Volume of Cube, Cuboids and Cylinder, Volume and Capacity.	<b>ACTIVITY-6</b> To derive the formula for surface area of a cuboid and solid cylinder. <b>ACTIVITY-7</b> To compare the surface areas of two unit-cubes and the cuboids obtained by these unit cubes.	
NOVEMBER 2024	20	10 10	11 05	<b>Chapter: FACTORISATION:</b> Factors of natural numbers, Factors of Algebraic Expressions, Factorization by method of common factors, regrouping terms using identities. Division of Algebraic Expressions: Division of Monomial by another Monomial, a Polynomial by a Monomial, Polynomial by a Polynomial. <b>Chapter: DATA HANDLING:</b> Looking for information, making grouped frequency distribution, Circle graph or Pie chart, Drawing pie-charts. Chance and Probability, getting a result, Equally likely outcomes, Linking chances to Probability, Outcomes as events, Chance and Probability related to real-life.	<b>ACTIVITY-8</b> Finding factors by activity method splitting the middle term. <b>ACTIVITY-9</b> Draw a double bar graph for marks obtained in different subjects of your class and a pie chart on average time spent by students on different subjects throughout the day.	
DECEMBER - 2024	17	17	10	<b>Chapter: COMPARING QUANTITIES:</b> Recalling Ratios and Percentages, finding Discount, Profit and Loss, Sales Tax/Value Added Tax/GST, Compound Interest, Deducing a formula for Compound Interest, Application of Compound Interest formula. Compound Interest, Deducing a formula for Compound Interest, Application of Compound Interest formula.	<b>ACTIVITY-10</b> Finding profit and loss for any given data collected from local newspapers.	PWT-3 (12-14 DEC 2024)
JANUARY-2025	15	07 08	05 05	<b>Chapter: INTRODUCTION TO GRAPHS:</b> A Line Graph, Some Applications. <b>Chapter: EXPONENTS AND POWERS:</b> Recall of Laws of Exponents, Power with Negative Exponents, Use of Exponents to express small numbers in Standard Form, Comparing very large numbers and very small numbers.		
FEB- 2025	21	15 06	08	<b>Chapter: DIRECT AND INVERSE PROPORTIONS:</b> Introduction, Direct Proportion, Inverse Proportion Practical Situations, Verbal Problems and other exercise problems. <b>Revision</b>	<b>ACTIVITY-11</b> Identifying and listing some real-life situations on direct and Inverse proportions.	PWT -4 (06- 08 February 2025)

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

MONTH	NO. OF DAYS	NO. OF PERIODS	Weightage of Marks for the Unit/ Chapter	Units/sub-units/ Topics/ Chapters to be covered	Details of Activity/Practical/ Projects to be given
MARCH H-2025	24			<b>REVISION ANNUAL EXAM</b>	

Note: -

at least 10 activities have to be conducted excluding Art Education in Math project. Different lab activities are suggested in the NCERT website or link <https://ncert.nic.in/science-laboratory-manual.php> In=they can be used. Apart from the activities, one Art Education project in Math must be done by each student integrated with other scholastic subjects (As per CBSE guidelines).

**NAVODAYA VIDYALAYA SAMITI**

**CLASS : VIII**

**SUBJECT: SCIENCE**

<b>UNITNO</b>	<b>NAMEOFTHECHAPTER/UNIT</b>	<b>PERIODS</b>
1	CropProductionAnd Management(Biology)	12
8	ForceAndPressure(Physics)	10
3	CoalandPetroleum (Chemistry)	13
2	Microorganisms:FriendAndFoe(Biology)	13
9	Friction(Physics)	14
5	ConservationOfPlantsAnd Animals(Biology)	12
4	CombustionAndFlame(Physics)	17
11	ChemicalEffectsOfElectric Current(Chemistry)	18
10	Sound (Physics)	20
6	ReproductionInAnimals (Biology)	08
13	Light(Physics)	09
7	ReachingTheAgeOf Adolescence(Biology)	15
12	SomeNaturalPhenomena(Physics)	21
	<b>TOTAL</b>	<b>80Marks</b>
	<b>INTERNALASSESSMENT</b>	<b>20 MARKS</b>
	<b>GRANDTOTAL</b>	<b>100 MARKS</b>



Month	No. of Days	No. of Periods	Unit number, Main Topics & Sub Topics to be covered	Sample Subject Enrichment Activities/Practical Activities may include Textual Activities & extended Learning projects	Sample Projects
April-2024	22	12	<b>Crop Production and Management: (BIOLOGY)</b> Agricultural Practices, Basic Principles of crop production, Preparation of soil, Sowing, Adding Manure and Fertilizers, Irrigation, Protection from weeds, Harvesting, Storage, Food from Animals	1. Study of symbiosis between touch - me - not plant and Rhizobium bacteria ( in leguminous plants) with specimen collection of touch me not plants 2. Selection of good quality seeds 3. Study of symbiotic association in lichens Preparation of agricultural tools	1. Micro green projects 2. Field visit of a farm, nursery or a garden nearby and gather information about A) Importance of seed selection B) Methods of irrigation c) Weeding 3. Effect of manure and fertilizers on crop plants. Teacher can assign projects to individual or group
		10	<b>*8. Force and Pressure (PHYSICS):</b> Force a Push or a Pull, Forces are due to an interaction, Exploring forces, A force can change the State of Motion, Force can change shape of an object, Contact forces, Non-contact Forces, Pressure, Pressure exerted by liquid and gases, Atmospheric Pressure	Preparing a model to show electrostatic force and magnetic force ( like magnetic toy) to show attraction and repulsion	
<b>Periodic Written Test-1 (26-29 April-2024)</b>					
July-2024	26	13	<b>3. Coal and Petroleum: (Chemistry)</b> Exhaustible and Inexhaustible Natural Resources, Coal, Petroleum, Natural Gas, Some Natural Resources are Limited	Seminar from a Resource person with Geology background	Get 5 outline maps of India and mark the places Where the following are found; 1. coal 2. petroleum, 3. natural gas 4. petroleum Refineries 5. Thermal Power plants. Teacher can Assign projects to individual or group
		13	<b>*2. Microorganisms: Friend and Foe (BIOLOGY):</b> Microorganisms, Where do Microorganisms live, Harmful microorganisms, Food Preservation, Nitrogen Fixation,	1. Study of protozoa From permanent slide (paramecium, euglena, Amoeba) 2 Study of fungi (yeast, & mushroom)	Art integration Drawing 5 examples of each 5 Microbial groups on charts, writing their uses Teacher can assign Projects to individual or

Month	No. of Days	No. of Periods	Unit number, Main Topics & Sub Topics to be covered	Sample Subject Enrichment Activities/Practical Activities may include Textual Activities & extended Learning projects	Sample Projects
			Nitrogen cycle	3. Study of Green algae From permanent slide 4. Observation of root nodules in leguminous plants	group
August-2024	22	04 July 10	<b>9. Friction (PHYSICS)</b> Force of Friction, Factors affecting Friction, Friction: A necessary Evil, Increasing and reducing Friction, Wheels reduce Friction, Fluid Friction	1. To measure the static friction on increasing the weight of the body 2. To study the increase or decrease in the frictional force a) Between two different surfaces with and without lubricant b). With same surfaces with and without lubricants 3. Static, sliding and rolling friction activities	
<b>Periodic Written Test-2 (08-10 August-2024)</b>					
August-2024		12	<b>5. Conservation of Plants and Animals (BIOLOGY):</b> Deforestation and its causes, Consequences of Deforestation, Conservation of Forest and Wildlife, Biosphere Reserve, Flora and Fauna, Endemic Species, Wildlife Sanctuary, National Park, Red Data Book, Migration, Recycling of Paper, Reforestation	Visit to conservative area like parks, zoo, sanctuary etc	Map work to study location of National parks, sanctuaries, and biosphere reserves Teacher can assign projects to individual or group
September-2024	17	17	<b>*4. Combustion and Flame (PHYSICS):</b> What is Combustion, How do we control fire, Types of Combustion, Flame, Structure of a Flame, Fuel Efficiency <b>And Revision For Term-1 Exams</b>	1. Avoid burning leaves or Plant wastes (harmful effects of fuel) and prepare compost – Mass project to be taken by all in the school	Survey of different fuels used in 100 houses of your locality. Find out their cost per kg and prepare a tabular chart to show the comparison to procure them per every rupee.

Month	No. of Days	No. of Periods	Unit number, Main Topics & Sub Topics to be covered	Sample Subject Enrichment Activities/Practical Activities may include Textual Activities & extended Learning projects	Sample Projects
<b>TERM-1 EXAMS( 23 Sept-04 October-2024)</b>					
October-2024	18	18	<b>11. Chemical Effects of Electric Current (CHEMISTRY):</b> Do Liquids Conduct Electricity, Chemical Effects of Electric Current, Electroplating	Electrolysis of water Electroplating using different metals	Teacher can assign Projects to individual or group
November-2024	20	20	<b>10. Sound (Physics):</b> Sound is produced by a vibrating body, Sound produced by Humans, Sound needs a medium for propagation, We hear sound through our ears, Amplitude, Time Period and Frequency of Vibrations, Audible and Inaudible Sounds, Noise and Music, Noise Pollution	1. To find the time period of the pendulum 2. Visit to music room and find the name of vibrating part in each musical instrument Teacher can assign projects to individual or group	
December-2024	17	08	<b>6. Reproduction in Animals (Biology):</b> Modes of Reproduction, Sexual reproduction, Asexual Reproduction	Collection of life stages of silkworm ( like cocoons- depends on the availability	1. Budding in hydra Binary fission in amoeba 3. Metamorphosis in frog/ silk worm Teacher can assign projects to individual or group
	<b>Periodic Written Test-3 (12-14 December-2024) concept maps, quizzes, drawing numerical, discussions CCT, notebook correction</b>				
		09	<b>13. Light (Physics):</b> What makes things visible, Laws of Reflection, Regular and Diffused Reflection, Reflected light can be reflected again, Multiple images, Sunlight- white or coloured <b>Structure of Human Eye-</b> What is inside our eyes, Care of the eyes, Visually challenged persons can read and write, What is the Braille system	1. To verify laws of reflection 2. To observe the dispersion of light through a prism and draw the diagram	Model of periscope Model of multiple images, parallel mirror forms infinite images Teacher can assign projects to individual or group
January-2025	15	15	<b>7. Reaching the Age of Adolescence: PART I</b> Adolescence and Puberty, Changes at Puberty, Secondary		1. Information gathering about AIDS, and HIV 2. Write an article about awareness of aids in

Month	No. of Days	No. of Periods	Unit number, Main Topics & Sub Topics to be covered	Sample Subject Enrichment Activities/Practical Activities may include Textual Activities & extended Learning projects	Sample Projects
			Sexual Characters, Roles of hormones in initiating Reproductive Function, Reproductive phase of life in Humans. Sex determination How is sex of the baby determined, Hormones other than sex hormones, Role of hormone in completing the Life History of Insects and Frogs, Reproductive		society, Teacher can assign projects to individual or group
			<b>Revision</b>		
<b>Periodic Written Test-4 (06-08 February 2025)</b>					
February-2025	21	21	<b>12. Some Natural Phenomena (Physics):</b> Lightning, Charging by Rubbing, Types of Charges and their Interactions, Transfer of charge, The Story of Lightning, Lightning Safety, Earthquake <b>And Revision For Term-2</b>		Collect Information about the earthquakes happened in India, within last 10 years Teacher can assign projects to individual or group
March-2025	24		Revision for Yearly Examinations Practice Test for complete syllabus to be conducted at the Vidyalaya Level		
<b>TERM-II EXAMINATION TERM END 17-28 March 2025</b>					

**Note :-**

1. Activities should be performed when the lesson is being taught and should be integrated with the chapter as per the new pedagogical approach and NEP
2. 30% of the term syllabus (**star marked chapters**) should be revised and covered in the Term II question paper along with the entire Term II syllabus

**NAVODAYAVIDYALAYASAMITI**

**CLASS : VIII**

**SUBJECT : SOCIAL SCIENCE**

<b>Chapter No</b>	<b>Title of the Chapter</b>	<b>Marks</b>
	<b>History</b>	
Chapter 1	How, When & Where	5
Chapter 2	From Trade to Territory –The Company Establishes Power	6
Chapter 3	Ruling the Countryside	6
Chapter 4	Tribals, Dikus and Vision of a Golden Age	6
Chapter 5	When People Rebel 1857 & after	7
Chapter 6	Weavers, Iron Smelters & Factory Owners	6
Chapter 7	Civilising the Native, Educating the Nations	7
Chapter 8	Women, Caste & Reform	6
Chapter 9	The Making of National Movement 1870s-1947	7
Chapter 10	India After Independence	7
	<b>Geography</b>	
Chapter 1	Resources	6
Chapter 2	Land , Soil, Water, Natural Vegetation & Wildlife Resources	7
Chapter 3	Minerals & Power resources	6
Chapter 4	Agriculture	5
Chapter 5	Industries	6
Chapter 6	Human Resources	6
	<b>Social &amp; Political Life</b>	
Chapter 1	The Indian Constitution	7
Chapter 2	Understanding the Secularism	7

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

Chapter No	Title of the Chapter	Marks
Chapter 3	Why Do We Need a Parliament	6
Chapter 4	Understanding Laws	6
Chapter 5	Judiciary	6
Chapter 6	Understanding Our criminal Justice System	7
Chapter 7	Understanding Marginlisation	5
Chapter 8	Confronting Marginalisation	6
Chapter 9	Public Facilities	5
Chapter 10	Law & Social Justice	6
	Total	80+80 (Term I & II)

MONTH	NO. OF DAYS	NO. OF PERIOD	CHAPTER NAME	Activities/Projects/ Practical/Specific Assessment Tools (Suggested)
April 2024	22	19	- How, when and Where - From trade to Territory <i>The Company Establishes Power</i> - The Indian Constitution - Resources <b>PWT-1 (26-29 April 2024)</b>	<ul style="list-style-type: none"> <li>• Prepare posters/ Charts on the significance of the Constitution, Preamble, and fundamental rights.</li> <li>• Projects on conservation of natural and human made resources.</li> <li>• Projects on forest fire, landslide, and industrial disasters, natural and human reasons for their occurrence and</li> </ul>
July 2024	26	22	- Ruling the Countryside - Understanding the Secularism - Land , Soil, Water ,Natural Vegetation &Wildlife Resources - Why Do We Need a Parliament	
August 2024	22	19	- Tribals, Dikus and Vision of a Golden Age - Minerals & Power resources - Understanding Laws <b>PWT 2 (08-10 Aug. 2024)</b>	

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

MONTH	NO. OF DAYS	NO. OF PERIOD	CHAPTER NAME	Activities/Projects/ Practical/Specific Assessment Tools (Suggested)
September 2024	17	15	- Agriculture - When People Rebel 1857 & after Revision <b>Mid-Term (23 Sep.- 04 Oct. 2024)</b>	control measures. • 4. Organise a mock election with model code of conduct and Youth parliament (Bal Sansad).
October 2024	18	15	- Judiciary - Weavers, Iron Smelters & Factory Owners - Understanding Our criminal Justice System	• Visits of places of historical importance particularly those associated with centres of colonial administration and Indian national movement. • Undertake 'projects' and 'activities' like
November 2024	20	16	- Civilising the Native, Educating the Nations - Women, Caste & reform	
December 2024	17	15	- The Making of National Movement 1870s-1947 - Understanding Marginalisation	(a) writing an essay on "Gandhiji's Idea of Nonviolence and its Impact on India's National Movement", (b) drawing up a timeline on 'Significant Events of India's National Movement', (c) enacting a role play on 'The Chauri Chaura Incident,' and (d) Locating on an outline map of India the 'Regions Most Effected by Commercial Crop Cultivation during the Colonial Period.
			<b>PWT 3 (12-14 Dec. 2024)</b>	
January 2025	12	10	- Confronting Marginalisation - Industries	
February 2025	20	16	• Human Resources • Public Facilities • Law & Social Justice • India After Independence  <b>PWT 4 (06-08 Feb. 2025)</b>	
March 2025	<b>Revision</b>			
<b>Term End ( 17-28 march 2025)</b>				

NAVODAYA VIDYALAYA SAMITI,

CLASS : VIII SUBJECT : COMPUTER (BASICS & FOUNDATION)

DISTRIBUTION OF MARKS					
Unit No.	Unit Name	Marks		Periods	
		Theory	Practical	Theory	Practical
1	Introduction to Excel -2	20	20	10	10
2	Introduction to HTML	20	20	6	12
3	Introduction to Problem Solving and Programming	10	10	8	7
Total		50	50	24	29

Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/ Projects
April	22	08	20 M	<b>INTRODUCTION TO EXCEL-2</b> <b>WORKING WITH SHEETS</b> <ul style="list-style-type: none"> <li>• Creating / deleting sheets</li> <li>• Renaming sheets.</li> <li>• Copying / moving sheets</li> <li>• Inserting new row and column.</li> <li>• Deleting / hiding the rows and columns</li> </ul>	<ul style="list-style-type: none"> <li>• Laboratory Practice to be done on all the concepts Creating, Deleting, Renaming, Copying, Moving sheets and Row</li> <li>• Insertion/deletion, Column Practical test can be conducted.</li> </ul>
<b>PWT-01/UT- 01 (26-29 APRIL 2024)</b>					
JULY	27	08		(Continued..... a) Changing the width and height of the column and row b) Finding and select the data in a given range. <b>VIEW MENU</b> <ul style="list-style-type: none"> <li>• Gridlines.</li> <li>• Freeze panes.</li> <li>• View side by side</li> <li>• Synchronous scrolling.</li> <li>• Merging the cells.</li> <li>• Split the cells.</li> </ul>	Insertion/deletion, Changing width and height of rows and columns. <b>Laboratory:</b> Practice to be done on all the concepts (Showing grid lines, freezing panes, side by side view, merge cells, split cells, synchronous scrolling) Practical test can be conducted.



Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
AUGUST	22	06		<b>WORKING WITH CHARTS</b> <ul style="list-style-type: none"> <li>• Create a chart</li> <li>• Edit a chart</li> <li>• Print a chart</li> <li>• Create a chart for a mathematical equation.</li> </ul>	<b>Laboratory:</b> Practice to be done on all the concepts (Chart creation, editing, printing, mathematical equation) Practical test can be conducted.
<b>PWT-02/ UT- 02 (08-10 AUG 2024)</b>					
SEPTEMBER	15	04	20 M	<b>INTRODUCTION TO HTML</b> Uses of HTML, HTML tags: <ul style="list-style-type: none"> <li>• Head</li> <li>• Title</li> <li>• Body</li> <li>• Empty</li> <li>• Container tags,</li> <li>• Heading (H1 to H6)</li> <li>• &lt;Br&gt;</li> <li>• &lt;hr&gt;</li> <li>• &lt;comment&gt;</li> </ul> Background colour, Font, Bold, Italic, Text Alignment and Paragraph	Children should be made familiar with the text editor. <ol style="list-style-type: none"> <li>1. Design a page in A4 sheet using all the tools taught.</li> <li>2. Laboratory Practice to be done on all the concepts (Writing HTML tags, putting heading, changing background colour of web page, changing font style, size, colour, text alignment, writing paragraphs, creation of lists, etc)</li> <li>3. Create a web page</li> </ol>
<b>MID TERM (23 SEPT TO 04 OCT 2024)</b>					
OCTOBER	22	06	20 M	<b>LIST</b> <ul style="list-style-type: none"> <li>• Ordered list.</li> <li>• Unordered list.</li> <li>• Definition list.</li> </ul> Background image Inserting image tag Anchor tag hyperlink	<ol style="list-style-type: none"> <li>a) Design web page(s) in the same way that you have created in A4 sheet, using HTML Concepts.</li> <li>b) Laboratory Practice to be done on all Changing background image, adding image(s), showing flash message, linking pages) Create web pages and link them using hyperlinks.</li> </ol>

Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
NOVEMBER	26	06		<b>INTRODUCTION TO PROBLEM SOLVING PROGRAMMING</b> ✓ Steps for problem solving. ✓ Introduction of Algorithm.	1. Draw a flow chart of steps involved in a program for solving simple computational problems
DECEMBER	20	05		✓ Understanding and preparing Flowcharts ✓ Evolution of programming language ✓ Types of programming language	1. Practical through Scratch online flowchart drawing tool for developing flowchart Practical through Scratch online platform. <b>Prepare a Chart on</b> ✓Types of Programming Languages ✓Evolution of Programming Languages ✓Prepare posters on examples of programming
<b>PWT-03/ UT -3 (12-14 DEC 2024)</b>					
JANUARY	14	06	10 M	<ul style="list-style-type: none"> <li>• Pseudo coding</li> <li>• Program</li> <li>• Compiler</li> <li>• interpreter</li> </ul>	Languages. Any Assessment methodology can be used to assess the knowledge of students
FEBRUARY	REVISION				
<b>PWT-04/UT-4 (06-08 FEB 2025)</b>					
MARCH	REVISION				
<b>TERM-END EXAM (17-28 MARCH 2025)</b>					

**NAVODAYA VIDYALAYASAMITI**

**CLASS – VIII**

**SUBJECT: PHYSICAL EDUCATION**

**Standing and Standard Instructions:**

1. Morning Jogging/Warm Up Exercises/Mass Drills/Aerobics/Yoga and Meditation
2. Khelo India Fitness Assessment test should be conducted at the Beginning and End of the Year.
3. Inter House Competitions as per Vidyalaya Calendar of Activities
4. Holding Periodical Cross-Country Race/Walk.
5. Trekking and Hiking Activities at least once in a year
6. Showing Live Matches to Children
7. Martial Arts/Self Defence Skill through Resource Persons
8. Fit India Movement activity should be conducted as per schedule
9. Special day must be celebrated i.e., Yoga Day, National Sport Day
10. ICT to be a part of the pedagogy to make learning enjoyable and joyful

NO. OF DAY	NO OF PDS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Physical Activities Prescribed
		Morning (45 Minutes)	Evening (90 Minutes)	Topics And Sub-Topics		
25	04	Jogging and warming up. Free hand exercises for Co-ordination. Fitness Assessment Test (to analyze their ability) Yoga asana: (Suryanamaskar a, Vrukshasana, Paadahasthasana , etc)	Selecting students to appropriate games and sports based on Fitness Assessment (battery) test analysis. Cricket Basketball Athletics: Basic skills of Jumps, Throws and running.	<ul style="list-style-type: none"> <li>• Human Body- Mental health &amp; Mental illness</li> <li>• Growth &amp; Development</li> <li>• Role of heredity</li> <li>• Emotional Development</li> <li>• Knowing mental changes.</li> </ul>	English: The Great Stone Face-II Earnest meets the poet Activity Name: Hide and seek Ask students to prepare a chart on sports terminologies	One student will act like Ernest and he will try to find the hidden students and ask them the likeness of the Great Stone Face. At last all the students will be traced by Ernest

NO. OF DAY	NO OF PDS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Physical Activities Prescribed
		Morning (45Minutes)	Evening (90 Minutes)	Topics And Sub-Topics		
26	04	Jogging and warming up. Calisthenics for Co-ordination. Yoga asana: (Suryanamaskara ,Naukasana, Bhujangasana etc)	Athletics: Different skills practice for jumps, throws and track events. Improved skillspractice in the taken games. Shorts sprints Distance walk	<ul style="list-style-type: none"> <li>•Target &amp; goal setting.</li> <li>•Identifying strategies toachieve it</li> <li>•Fundamentals skills of team games</li> <li>•Evaluating the opponent team and planning own team’s strategy.</li> <li>•Measurements of cricket pitchand basketball court.</li> </ul>	English: A visit to Cambridge Hawkins’ sadvice for the disabled Activity Name: Three leg Race	Children to do a three-legged race thought ending up flat on their face.
25	04	Jogging and warming up. General warming up and co-ordination exercises march past practice. (Yogasana: Suryanamaskara, Gomukhasana, Matsyaasana, Pranayama– Sheetal Pranayam, Kapalbhati Pranayam)	Practice of basic skills of Cricket (bowling) &Basket ball. Jumps and throws related exercises. Martial arts practice should be done	Orientation to sports skills– for recreation & competitions How to recreate through physical activities, recreational games such as badminton, table-tennis etc. Fundamental skills of any two major games as per the availability of facilities. Rules and regulations of concern games.	Mathematics : Lizing Solid Shapes activity Name: g 3D shape Yogic Asana	

NO. OF DAY	NO OF PDS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Physical Activities Prescribed
		Morning (45Minutes)	Evening (90 Minutes)	Topics And Sub-Topics		
22	03	General conditioning Exercises and Group activities for co-ordination (aerobics). Yogasana: Suryanamaskara, Yogamudrasana, and Paschimotthanasana.	Volleyball & Throw ball basics, Lead up activities for speed development in Athletics. Practice of skills and Techniques of the concerned game.	Agility -how to test our agility for fitness– pushup, bent knee sit- ups, shuttle run etc. Atmospheric Pollution- types& effects. Rulesand regulations of volleyball & throw ball	Mathematics: Introduction to Graphs Activity Name: Cricket andLine graph	Aerobics exercise
<b>TERM-1</b>						
24	04	General Fitness Exercises, Mobility exercises. Yoga- (Suryanamaskar, Makarasana & Pavanamukth asanas.)	Improvised skills of volleyball and throw ball. Athletics: Strength related activities for throws and jumps. Endurance Activities	Children will be asked to play tug of war usingdifferent ropes made by different thin fibres.	Science: Synthetic Fibers and Plastics What is synthetic fibre. Activity Name: Tug of war	Yoga - Asanas & Kriyas. Flexibility & tatic contractionof muscles. Role of Meditationfor improving the improving the concentration . Qualities of healthymind. Measurements of volley ball & throw ballcourts. Duties and responsibilities of officials.

NO. OF DAY	NO OF PDS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Physical Activities Prescribed
		Morning (45Minutes)	Evening (90 Minutes)	Topics And Sub-Topics		
19	03	General Fitness Exercises, Mobility exercises. Yoga- (Suryanamaskar , Makarasana & Pavanamukth asanas.)	1.Endurance Activities 2.Speed activities	1.Yoga for concentration 2. Benefits of Endurance and speed training	Science: Synthetic Fibers and Plastics What is synthetic fibre. Activity Name: Tug of war	1.Long distance running and waling 2.Shorts sprints
22	04	Jogging, walking, mass PT Meditation practice Yogasana: (Suryanamaskara, and previous asanas)	Yogasana: (Suryanamaskara, and previous asanas.)	Children asked to watch the cricket match for visually challenged Different components of physical fitness	Science: Sound Activity name: Importance of sound in cricket (For Visually disabled)	We & Our environment – Water, hygiene & Sanitation importance of Water Conservation – Preventing water wastage at personal level, family level & community level banking – learning out indigenous seed varieties. Strategies of volleyball & throw ball.

NO. OF DAY	NO OF PDS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Physical Activities Prescribed
		Morning (45Minutes)	Evening (90 Minutes)	Topics And Sub-Topics		
13	02	Jogging, walking, mass PT Meditation practice Yogasana: (Suryanamaskara, and previous asanas)	Coordination movements Gymnastics: Hand standard & rolls.	1. Benefits of coordinative ability	Make a project on different gymnastics moves	Front rolls Backwards rolls Jumps hanging exercises
23	03	General Fitness exercises and practice of previous activities, Practice of different formations in hoops, Yogasana: Suryanamaskara, and previous Asanas. March Past Practice, dumbbells, Lazium and wands exercises	Practice/friendly matches. Athletics: Improvised techniques for start and finish. Martial arts practice should be done	Food & Nutrition– Food practices, Food choices, globalization of food practices Fasting, nutritional anemia Leadership qualities. Safety & security– safety from Animals & animal bites Prevention & treatment of snake bite, animal attacks, dog bites etc. First-aid – situations which require first aid Information about Hospitals & PHCs Social health – Listening to others, doing negotiations, making decisions, being assertive, solving problems, being confident, caring for nature etc.	Science: Sound Noise and music Activity name: March Past	The class will be divided into groups of two. First group will be asked to observe the arch Past for 5 days before Independence Day The second group asked to observe the March Past of Independence Day
TERM - 2 EXAM						

**NAVODAYA VIDYALAYA SAMITI**  
**CLASS:VIII**                      **SUBJECT:ART(VISUAL)**

MONTH	NO.OFDAYS	NO.OFPERIODS	MAIN-TOPICS AND SUB-TOPICS TO BE COVERED	MEDIUM/MATERIALS	PROJECTS/ART INTEGRATED PEDAGOGY ACTIVITIES PRESCRIBED	ASSESSMENT TOOL(S)/ PRACTICAL HANDS-ON ACTIVITIES PRESCRIBED
APRI-2024	24	8	<b>Brief Study of Indian Traditional Paintings</b> i. Madhubani Painting ii. Warli Painting iii. Kalighat Painting iv. Phad painting v. Miniature Painting vi. Gond Painting vii. Kerala Mural Painting viii. Patachitra painting	Pencil, Water colour, Acrylic colour	Select any two traditional paintings and Practice it. Prepare two final paintings. ICT tools may be used.	Understand the strength of drawing, usage of colour, composition and peculiarities of Indian traditional Paintings.
JULY-2024	26	8	<b>Brief Study of Indian Sculptures (3D visual Art)</b> Indus Valley Civilization, (Dancing Girl, The priest), Mauryan Period (The Lion Capital), Satavahana Period, Gandharan Art, Gupta Period, Chola Period	Pencil (for preparing detailed drawings of the sculptures), Clay, Paper Pulp, POP.	Do the detailed study of the sculptures by doing drawings and Prepare one sculpture with any one of the given medium. ICT tools may be used.	Understand the versatility, usage of medium, composition of the Indian Sculptures. Learn different types of sculptures (3D, Relief -high relief- low relief, Carved Sculptures etc.)
AUGUST-2024	25	8	<b>Still Life Painting-</b> Study from the paintings of masters like <i>Pieter Claesz</i> , <i>Caravaggio</i> , <i>Paul Cezanne</i> , <i>Vincent van Gogh etc.</i> Form, Colour, Texture, Proportion, Light and Shade and Composition.	Pencil, Water Colour, Acrylic Colour	Arrange 4 or 5different objects by giving appropriate lighting and draw. Prepare one final still life painting. ICT tools may be used.	Learn the different texture character, colour and form of different objects. Understand light and shade
SEPTEMBER-2024	17	6	<b>Nature Study</b> Direct visual contact with natural objects. Observe keenly and draw from natural objects both living and nonliving things such as Tree, Birds, Plants, Flowers, Animals and fruits etc.	Pencil, Pen, Ink and Pencil Colour	Study directly from outdoor by doing drawings and prepare 5 detailed (final) drawings of the natural objects. ICT tools may be used.	Understand the character, details, colour, texture and form of both living and nonliving natural objects. It gives a deep Understanding about nature.
<b>SEPTEMBER- OCTOBER -2024/TERM-1EXAMINATION</b>						



Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

OCTOBER - 2024	18	6	<p><b>Life study</b></p> <p>Students primarily practicedrawing from livemodels. Quick sketches from short active poses and more detailed drawings from long poses.</p> <p>i. Principles of drawing through careful study of the human form.</p>	Pencil,Charcoal	After doing quick sketches from different angles prepare one neat life study drawing with light and shade on a half imperial paper. ICT tools may be used.	Students learn the principles of drawing through careful study of the human form. Understand the human anatomy and many skills in life drawing that will apply to future study.
NOVEMBER -2024	20	6	<p>ii. Observation</p> <p>iii. Figure construction</p> <p>iv. Modeling</p> <p>v. Human anatomy</p> <p>vi. Composition</p> <p>vii. Proportion</p>	Pencil,Charcoal	After doing quick sketches from different angles prepare one neat life study drawing with light and shade on a half imperial paper. ICT tools may be used.	Students learn the principles of drawing through careful study of the human form. Understand the human anatomy and many skills in life drawing that will apply to future study.
DECEMBER - 2024	18	6	<p><b>Landscape</b></p> <p>History of Landscape Painting. Representational, Impressionistic and Abstract. Study from the paintings of masters like Joseph William Turner, John Constable, Camille Pissarro, Paul Cézanne, Claude Monet, Vincent VanGogh, Chinese Landscapes, Rajasthani and Pahari, Mughal etc.</p>	Pencil, Water Colour, Acrylic Colour	After doing pencil sketches from outdoor, select a suitable angle and prepare one neat landscape painting on a half imperial Or quarter imperial paper. ICT tools can be used.	Learn the details, colour, texture and form of the nature and natural objects. It gives a deep understanding about nature. Landscape paintings often construct a certain mood or emotion—they are incredible tools for creating an atmosphere.
JANUARY - 2025	14	4	<p><b>Poster Design</b></p> <p>Introduction – History, Introduce some successful Posters.</p> <p>i. Identify the goal of your poster.</p> <p>ii. Consider your target audience.</p> <p>iii. Decide where you want to share your poster.</p> <p>iv. Composition and Design</p> <p>v. Pick a relevant colour scheme.</p>	Pencil, Water Colour, Acrylic Colour. For digital design, computer and suitable software.	Prepare one neat outdoor or indoor Poster on a half imperial or quarter imperial paper. Prepare one digital poster using suitable software.	A great way to show the creativity, design sense, idea (should be presented in brief) creation of caption etc.

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

			vi. Use varied fonts to create visual hierarchy. Use of suitable captions.			
FEBRUARY-2025	24	8	<p><b>Photography</b> Brief History of Photography. Introduction to Camera. Learn to hold the camera properly. Understand the exposure triangle (Aperture, Shutter speed, and ISO). Introduction to the basics of the four elements of photography: light, color, composition, and subject. Depth of field. Different types of lens. Use of tripod, Photo editing.</p>	DSLR/Mirror less Camera, Tripod, Computer with editing software	All children should take minimum five photographs each. The subject and exposure should be different in each photograph. The soft copy of the photographs should be edited and saved for the portfolio submission.	Students will be able to handle and take photographs with DSLR/Mirror less camera. They will learn both theoretical part and practical as well.
MARCH-2025			<p>Submission of Portfolio. All students should submit one portfolio each containing one write up on Brief Study of Indian Traditional Paintings, Brief Study of Indian Sculptures, one Still Life Painting, five detailed Drawings of Natural objects, one Life Study Drawing, one Landscape Painting, Two Posters, 5 Photographs (soft copy) And one Art integrated Study of any paired state Painting (soft copy)</p>			

Note:

As per NEP 2020 Art Integrated Learning (AIL) is a teaching-learning model which is based on 'learning through hearts' and 'with hearts'. One of the core principles guiding the education system, according to the policy, would be the 'extensive use of technology in teaching and learning.'

**NAVODAYA VIDYALAYA SAMITI**

CLASS: VIII

SUBJECT: MUSIC

- 1) Students learn about primary concepts of Music and also learn to correlate it with science and other subjects.
- 2) Students learn Songs in different languages for inculcation of National Integrity as well as explore diversities and develop respect towards different cultures.
- 3) Students explore Local Folk Culture
- 4) Vision of the students is broadened so that the little minds will get a chance to think beyond the barriers of so called subject boundaries and learn the concepts with a broader vision.
- 5) Students are exposed to the integration of latest technology in music.

MONTH	NO. OF DAYS	NO. OF PERIODS	MAIN-TOPICS AND SUB -TOPICS TO BE COVERED	PROJECTS/ART INTEGRATED PEDAGOGY ACTIVITIES PRESCRIBED	ASSESSMENT TOOL(S)/ PRACTICAL HANDS-ON ACTIVITIES PRESCRIBED
APRIL/JUNE 2025	24	04	1. Thaata and types of swara's 2. Prayer Song – “Karo Raksha Vipatti se” with original Bengali Version of the song penned by Ravindranath Tagore OR Bengali Song “EklaChalo Re”	<b>SUGGESTED ACTIVITIES</b> 1. word by word recitation of the song by teacher followed by students 2. Discussion meaning of the song 3. Recitation of tune by teacher followed by students. <b>(Interdisciplinary Approach)</b> 1) Language & Literature : • Associate the prayer song with the poem “THE LAST BARGAIN”, A VISIT TO CAMBRIDGE in Honey Dew (Textbook of English subject class VIII) and life of Hellen Keller (Given under the Chapter “Light” in Science Textbook of class VIII) • Students are asked to collect songs of Rabindranath Tagore which are translated to multi languages 2) Social Science Students are exposed to the art & culture of Bengal.	1) Vocal Performance /Instrumental Performance (Perfection of pitch, tempo and in proper rhythm). 2) Project Work – • Students are asked to prepare charts Containing brief Information about population, education ratio, festivals, cousins, main crops, Water reservoirs, historical monuments, freedom fighters etc. of Bengal.

JULY 2024		04	<p>2. Theory : Life History of Pt. Vishnu Narayan Bhatkhande (Hindustani Music)  OR Vaggeyakara Annamacharya (Carnatic Music)</p>	<ul style="list-style-type: none"> <li>Discussion about life &amp; contribution of Pt. Vishnu</li> </ul> <p><b>(Interdisciplinary Approach)</b> 1. History Students get exposed to the history of India and development / changes that occurred in Music and Culture of India.</p>	<p>Question – Answer Project work – To collect photographs and prepare a chart about creations and work done by legends</p>
	26	04	<p>3. Community Song – in Oriya language Or Punjabi language</p>	<p><b>SUGGESTED ACTIVITIES</b> 5) word by word recitation of the song by teacher followed by students 6) Discussion on the meaning of the song 7) Recitation of tune by teacher followed by students.</p> <p><b>PROJECTS</b> <b>(Interdisciplinary Approach)</b> 1. Social Science :  <ul style="list-style-type: none"> <li>Students get exposed to the art &amp; culture of Orissa or Punjab</li> <li>Students are asked to prepare a</li> </ul> </p> <p>ix. chart depicting the historical monuments in the state of Orissa or Punjab</p>	<ul style="list-style-type: none"> <li>Vocal Performance / Instrumental Performance (Perfection of pitch, tempo and in proper rhythm).</li> <li>Project Work – A. Students are asked to Prepare a chart containing brief Information about population, education ratio, festivals, cousins, main crops, water reservoirs, freedom fighters etc. of Orissa</li> </ul>
		04	<p>4. Rajasthani Folk Song</p>	<ul style="list-style-type: none"> <li>Discussion about Song covering the type of song, special occasion when the song is sung, aesthetics of the song etc.</li> </ul> <p><b>PROJECTS</b> <b>(Interdisciplinary Approach)</b>  <ul style="list-style-type: none"> <li>Language &amp; Literature : Students learn about the regional language and dialects.</li> <li>Art &amp; Culture : Students are asked to collect pictures and information regarding different</li> </ul> </p>	<p>i. Vocal Performance / Instrumental Performance (Perfection of pitch, tempo and in proper rhythm)</p>

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

				<ul style="list-style-type: none"> <li>festivals, folk songs and folk dances of Rajasthan</li> </ul>	
AUGUST 2024	25	04	<p>5. Patriotic song – In Hindi.</p> <p>6. Theory: Brief Introduction of Classification of Musical Instruments.</p>	<ul style="list-style-type: none"> <li>Word by word recitation of the song by teacher followed by students.</li> <li>Recitation of the song by teacher followed by students</li> </ul> <p><b>(Interdisciplinary Approach)</b></p> <ul style="list-style-type: none"> <li>Prepare chart / PPT depicting geographical diversity of India</li> <li>Prepare a chart on origin of different Civilizations.</li> <li>Brief discussion about the production of sound</li> <li>Discussion about tonal quality of the sound on the basis of material used in production of sound</li> <li>Relation between different physical phenomenon like length, thickness, way to creating vibrations etc on the Sound</li> </ul> <p><b>(Interdisciplinary Approach)</b></p> <p>1. Physics :Chapter 13 “Sound” in class VIII Science Textbook may be better explained while teaching about simple basic musical terms like Production of Sound, Concepts of frequency, tonality, timbre, different quality of sound (Bass, treble etc.) may be easily explained while teaching the shrutis &amp; swaras</p>	<p>1. Vocal Performance / Instrumental Performance (Perfection of pitch, tempo and in proper rhythm)</p> <p>Question – Answer about production of sound</p> <p>Preparation of a model to describe scientific principle about effect of thickness on frequency of sound</p>
SEPTEMBER 2024	17	02	<p>7. Community Song in any Language. Like - Sare jahan se accha..... Hind desh ke niwashi</p>	<ul style="list-style-type: none"> <li>Discussion about lyrics and</li> <li>Word by word recitation by teacher followed by students</li> <li>Recitation of tune by teacher followed by students</li> </ul>	<p>Vocal / Instrumental performance</p> <ul style="list-style-type: none"> <li>Question – Answer about Values of Secularism as Contemplated in the</li> </ul>

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

				<p><b>(Interdisciplinary Approach)</b> IX) Civics : Students are exposed to the values of unity in diversity. • Students get an idea about values of Secularism in our Constitution.</p>	constitution of India.
		02	<p>8.Theory : Introduction of Raga Yaman in Hindustani Music / Kalyani in Carnatic Music Practical : A sargam Geet/ bandish Madhyalaya in Raga Yaman OR simple keerthanam in Raga Kalyani in Carnatic Music</p>	<ul style="list-style-type: none"> <li>• Discussion about structure of Raga and notes used in it.</li> <li>• A small bandish (Composition ) in Raga</li> </ul> <p>Listening different types of famous Bhajans and light music song to make the concept clearer</p>	<p>Question – Answer about theoretical aspects of Raga</p> <ul style="list-style-type: none"> <li>• Vocal / Instrumental performance</li> </ul> <p>Ability to recognize Raga from phrases of swaras during viva test (Practical Exam)</p>
		02	<p>9.Bhajan Vaishnav jantho Or Raghupati raghav raja ram.....</p>	<p>xiv) Discussion about the song and its meaning xv) Discussion about Human values xvi) Recitation of the song by teacher followed by the students</p> <p><b>(Interdisciplinary Approach)</b></p> <ul style="list-style-type: none"> <li>• VALUE EDUCATION : Students explore human values asdescribed in the Bhajan</li> <li>• SOCIAL SCIENCE : Collect information about lives and deeds of various saints and leaders who have followed the values in their life and set examples for others.</li> </ul>	<p>Vocal / Instrumental Performance</p> <p>Simple question – Answer about Raga Khamaj upon which the tune of the Bhajan based on etc.</p>
<b>SEPTEMBER - OCTOBER 2024 TERM - I EXAM</b>					
OCTOBER 2024	18	02	<p>10.Theory :IndianNotation System (Pt. Vishnu NarayanBhatkhande Notation System for Hindustani Music</p>	<ul style="list-style-type: none"> <li>• Derive the need and importance of Notation System by discussion with students.</li> </ul> <p>Discuss all the symbols used in Bhatkhande Music Notation System</p>	<p>Question – Answer about symbols of notation system.</p> <p>Reading and writing of notations.</p>

			/SRGMNOTATION system in Carnatic Music		
		02	11. Theory & Practical: Introduction of Raga Brindavani Sarang/Malkauns/ Hindolam/ Madhyamavathi.	<ul style="list-style-type: none"> <li>• Discussion about structure of Raga and notes used in it.</li> <li>• A small bandish (Composition ) in Raga</li> <li>• Listening different types of famous Bhajans and light music song to make the concept clear.</li> </ul>	Question – Answer about theoretical aspects of Raga • Vocal / Instrumental performance Ability to recognize Raga from phrases of Swaras.
		02	12. Community Song in Tamil	<p><b>(Interdisciplinary Approach)</b></p> <ul style="list-style-type: none"> <li>• Social Science :</li> <li>• Students may be exposed to the art &amp; culture of Tamilnadu</li> <li>• Students are asked to prepare a chart depicting the historical monuments in the state of Tamilnadu.</li> </ul> <p>Students are asked to prepare to collect photographs of the freedom fighters of the state of Tamilnadu with brief information about their life.</p>	Introductory question – Answer about state of Tamilnadu and its cultural heritage. xiv) Word by word recitation of the song by teacher followed by students xv) Discussion of the meaning of the song xvi) Recitation of the tune of the song by teacher followed by students
			<b>TERM I EXAM</b>		
NOVEMBER 2024	20	02	13.Theory : Introduction of Teen taal I in addition to Taalas learnt in Class VI & Class VII OR Chappu talas (As per Carnatic Music)	<ul style="list-style-type: none"> <li>• Discussion about importance of Taal</li> <li>• Exercise for counting Matras of Taal Teental &amp; Rupak OR Chappu tala (As per Carnatic Music) with clapping &amp; stamping</li> </ul> <p>Recitation of Bols (syllables) of Teental and its usages</p>	8. Question – Answer about theoretical aspects of Tala 9. Skill of clapping and stamping in Tala 10. Recitation of Bols (Syllables of Tala)
		04	14..Practical : Recognizing Teental in addition to Teental, Rupak, Kehrva and Dadra played on Tabla OR ChappuTalam in addition to Adi Talam & Rupaka Talam On Mridangam or jalra	7. Lecture and Demonstration of playing Teental, Rupak, Kehrva and Dadra on Tabla. OR Chapputalam, Adi Talam & RupakaTalam (As perCarnatic Music) on Mridangam (If teacher is not able to play Tabla /	Ability to recognize tala played on Tabla / Mridangam

			mobile application. Mridangam, She/he may use recorded clips or jalra mobile application.)	
DECEMBER 2024	20	06	15.Making of Tabla / Mridangam	<p>7. Discussion about structure of Instrument</p> <p>8. Science behind the production of sound from the Instrument</p> <p><b>(Interdisciplinary Approach)</b></p> <p>1. Physics: Chapter 13 “Sound” in class VIII Science Textbook - Concept of frequency, tonality, timbre, different quality of sound (Bass, treble etc.) may be easily explained while teaching the making of the instrument.</p> <p>2. General Studies: Collection of Photographs of eminent artists related with said instruments and brief information of the artists in form of charts or scrap Book.</p> <p>5. Question – Answer about making of the instrument</p> <p>6. Question – Answer about terms of Science like frequency, effect of the thickness, length and type of material on production of sound etc. Drawing labelled diagram of the instruments.</p>
<b>WINTER BREAK</b>				

6. As per NEP 2020 Art Integrated Learning (AIL) is a teaching-learning process which is based on learning 'through the arts' and 'with the arts'. One of the core principles guiding the education system, according to the policy, would be the 'extensive use of technology in teaching and learning. In order to maximize the usage of ICT, a well-equipped Music Room with computer, Internet connection, required instruments, software and other facilities are to be ensured.
7. Two workshops on music (Vocal/Instrumental) may be conducted with the help of professional artists to enable children to perform on the stage.
8. Weekly coaching classes may be conducted (vocal / instrumental) with the help of professionals in the respective field by using VN.



**SPLIT UP OF SYLLABUS  
CLASS IX**

## NAVODAYA VIDYALAYA SAMITI

Split up of syllabus 2024-25

**CLASS: IX SUBJECT: ENGLISH**

<b>Unit no.</b>	<b>Name of the Chapter/Unit</b>	<b>Marks</b>
ReadingComprehension	Conceptual understanding, decoding, analyzing, inferring, interpretingandvocabulary	20
WritingSkill&Grammar	Creative expression ofanopinion, reasoning,justifying, illustrating, appropriatestyle and tone,using appropriate formatand fluency,applying conventions,using integrated structures with accuracyandfluency	20
LanguageThrough Literature	Recalling, reasoning, appreciating, apply ingliterary conventions, illustrating and justifying etc.Extractrelevantinformation,identifyingthecentralthemeandsu b-theme, understandingthe writer's message and writing fluently.	40
<b>Total</b>		<b>80</b>
InternalAssessment		20
<b>GrandTotal</b>		<b>100</b>

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

Month	No of days	No of periods	Main Topics	Grammar and Composition	Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
APRIL 2024	22	22	1.The Fun They Had 2.The Lost Child 3.The Road Not Taken 4.Wind	1.Exercises-tenses	The Fun They Had <i>Toy Based Pedagogy</i> 1.Debate – online Vs offline classes The Lost Child <i>Story Based Pedagogy</i> 1.Mind map The Road Not Taken <i>Art Integrated Pedagogy</i> 1.Making a PPT on the poem 2. Describing such a decision that had changed their course of life. Wind <i>Art Integrated Pedagogy</i> 1.Wind-Picture description Tenses Gap Filling- using tenses Assessment tools – Editing based on tenses
<b>PWT-I /UT-1 26-04-2024 TO 29-04-2024</b>					

Month	No of days	No of periods	Main Topics	Grammar and Composition	Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
JULY 2024	26	26	5.The Sound Of Music 6.Rain On The Roof 7.The Adventures Of Toto 8.The Little Girl	1.Editing based on modals  2.Sentence re ordering  3.Letter writing skill	The Sound Of Music <i>Toy Based Pedagogy</i> 1. Making of musical instrument from waste material. 2. Collecting pictures of famous musicians and the musical instruments Rain on the roof- <i>Art Integrated Pedagogy</i> 1. Compose your own poem on rain/leaf/cloud etc The Adventure Of Toto <i>Art Integrated Pedagogy/Story Telling based/ Toy Based Pedagogy</i> 1. Perform the role of an ideal father. 2. Speak about how your parents take care of you when you fall ill. Does it enhance your love and regard towards them? 3.How do your parents take care of your grandparents? The Little Girl <i>Art Integrated Pedagogy</i> 1.Role Play 2.Play the role of a Modal and tell about your usage. Integrated grammar exercises Editing based on modals Sentence Reordering Assessment tools –speaking and listening skill Framing MCQ based on the chapters

Month	No of days	No of periods	Main Topics	Grammar and Composition	Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
AUGUST 2024	22	22	<p>9. A Truly Beautiful Mind</p> <p>10. The Lake Isle On Innisfree</p> <p>11. Iswaran the Storyteller</p>	<p>1. Modals- Editing based on modals ,</p> <p>1. Article, Speech or Debate based on visual or verbal input.</p> <p>2. Writing a Diary- with verbal inputs</p> <p>Clause: Noun Clauses, Adverb Clauses of condition and time, Relative clauses</p>	<p>A Truly Beautiful Mind</p> <p><i>Art Integrated Pedagogy</i></p> <p><i>Story Telling based Pedagogy-Science fiction</i></p> <p>1. Write a book review on any of the following books by Albert Einstein- The World As I See It/ The Time Machine</p> <p>The Lake Isle Of Innisfree- <i>Art Integrated Pedagogy-</i></p> <p>1. Paint a beautiful landscape.</p> <p>2. Search for beautiful places of India where you would like to spend your leisure time. Prepare a portfolio/ collage of those places.</p> <p>Iswaran the Storyteller <i>Story Telling Based Pedagogy-</i></p> <p>1. There are so many people around us who tell us different stories about haunted places in their locality. Do you believe such people? Do you enjoy listening to them? Narrate such an instance to your class.</p> <p>2. Debate about Ghost is figment of imagination or real 'Iswaran the Storyteller'.</p>
			<b>PWT/UT-II AUGUST 8-08-2024 TO 10-08-2024</b>		

Month	No of days	No of periods	Main Topics	Grammar and Composition	Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
SEPTEMBER-2024	17	17	<p>12.The Snake and The Mirror</p> <p>13.A Legend Of The Northland</p> <p>14.In The Kingdom of Fools</p>	<p>1.Report for a school magazine</p> <p>2. Story Writing – picture or verbal inputs</p> <p>3.Reported Speech- Commands, Requests, Statements, Questions</p>	<p>The Snake and The Mirror <i>Toy based Pedagogy and Story Telling based Pedagogy-</i></p> <p>1. Activity- The snake and mirror –keep mirror in open area, how animals react if they see their image in mirror. They will make a story</p> <p>2. Framing MCQ type questions based on the chapter The Snake and The Mirror.</p> <p>A Legend Of The Northland <i>Story Telling Based Pedagogy/ Art Integrated Pedagogy</i></p> <p>1.Pictorial representation of the story in the poem.</p> <p>2. Charity is the greatest virtue. A person can help others even after death like we can donate our eyes, liver or any other body part for the service of mankind.</p> <p>3.Collect information about the people (living or dead) of your society who did such charities.</p> <p>4.Reciting poems</p> <p>In The Kingdom Of Fools <i>Art Integrated Pedagogy/Story Telling based Pedagogy</i></p> <p>1.Making a Mind map</p> <p>2.Role play</p> <p>3. Make a chart on the rules of</p>

Month	No of days	No of periods	Main Topics	Grammar and Composition	Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
OCTOBER- 2024	17	17	15.The Happy Prince 16.My Childhood	1, Story Writing 2. Reported speech- commands, statements, question, 3.Determiners	Reported Speech. The Happy Prince <i>Art Integrated Pedagogy/Story Telling based Pedagogy</i> 1.Making a Mind map 2. Write-up on doing good make us feel good. 3. Written Class Test 4. Group Discussion on the prevalent issues Assessment test-Oral Test Debate and Discussions My Childhood <i>Art Integrated Pedagogy/Story Based Pedagogy</i> 1. Recount anecdotes from the scientist's life collect information about the contribution of Dr. APJ Abdul Kalam in the field of science. 2.Narrating biography of Great Personalities enlist virtue and work of great personalities
<b>TERM-I Examination 23-9-2024 to 04-10-2024</b>					

Month	No of days	No of periods	Main Topics	Grammar and Composition	Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
<b>NOVEMBER-2024</b>	20	20	17.No Men Are Foreign 18.The Last Leaf	1. Report for a school magazine 2. Story Writing – picture or verbal inputs	No Men Are Foreign <i>Art Integrated Pedagogy-</i> 1. Do you have any friend of different religion and culture amongst your friend circle? Find out the differences you notice in your culture and rituals. 2.Reciting poem and show the students whole world through computer, T.V  The Last Leaf <i>Story telling based/ Art Integrated Pedagogy</i> 1. Role Play/ Dramatization 2.Simulating real life situations 3. Paint a leaf for your class display board and write motivational thought on it. 4. Prepare a chart on the physical and emotional changes that occur in our body during adolescence for MI room of your school
<b>DECEMBER-2024</b>	18	18	19.Reach For The Top 20.On Killing a Tree 21.A House Is Not a Home	1.Descriptive Paragraph writing	Reach For The Top- <i>Art Integrated Pedagogy/ Story Telling Based/Sports Integrated Pedagogy</i> 1.Using newspapers clipping as a resource for showing Success stories  On Killing A Tree <i>Art Integrated Pedagogy</i> 1.Recitation, 2.Write poems on trees and their importance 3.Exhibition of write ups, articles essays and poems based on environment preservation A House Is Not A Home <i>Art Integrated Pedagogy/ Story Telling Based</i> 1.A house is not a home- showing/ drawing cartoons /pictures/sketches 2. Write a note on pet care.
			<b>PWT/UT-III 12-12-2024 TO14-12-2024</b>		



Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

Month	No of days	No of periods	Main Topics	Grammar and Composition	Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
JANUARY -2025	14	14	22.Kathmandu 23.If I were you 24.A Slumber Did My Spirit Seal	1.Report for a school magazine 2.Story Writing and Picture description on visual or verbal inputs	Kathmandu- <i>Art Integrated Pedagogy</i> What is Nepal famous for in the world? Kathmandu-Picture description and collection of information about one place. If I were you <i>Art Integrated/Story Telling Based</i> A slumber did my spirit seal Listening skill and enhance speaking skill Assessment tools Integrated grammar practice -Listening skill and enhance speaking skill
FEBRUARY-2025	21	21	25.The Beggar 26. Unseen Comprehension passage 27. Transformation of exercises	1. Article writing 2. Diary writing 3. Story writing 4. Integrated Exercises-Gap filling, Editing	1. Education is the weapon to change the society. Give speech on the Importance Of Education 2. Whom do you consider your ideal? Enact like him /her for a whole day? 3. Make a greeting card for the soldiers who sacrificed their lives. 4. Whose role would you like to perform if you get a chance? Role play
<b>PWT 4/UT- IV 06-02-2025 TO 08-02-2025</b>					
MARCH-2025	17	17	Revision		
			<b>TERM END EXAMINATION 17-03-2025 TO 28-03-2025</b>		

नवोदयविद्यालयसमिति  
कक्षा-9 नवोदयविद्यालयसमिति  
विषय-हिंदी' अ

वार्षिक परीक्षा हेतु अंक भार विभाजन			
खंड 'अ' ( वस्तुनिष्ठ प्रश्न (			
क्रम संख्या	विषयवस्तु	उपभार	कुल भार
1	अपठितांश		10
	क अपठित गद्यांश] विकल्प रहित [पाँच बहुविकल्पी प्रश्न 1 x 5=5	5	
	ख अपठित काव्यांश [विकल्प सहित] पाँच बहुविकल्पी प्रश्न 1 x 5=5	5	
	व्याकरण के लिए निर्धारित विषयों पर विषयवस्तु का बोध,भाषिक बिन्दु संरचना आदि पर बहुविकल्पीय प्रश्न (कुल 20 में से कोई 16 प्रश्न)		
	व्याकरण		
1	शब्द-निर्माण उपसर्ग -2 अंक, प्रत्यय-2 अंक (5 में से कोई 4 प्रश्न) समास-4 अंक (5 में से कोई 4 प्रश्न)	8	16
2	अर्थ की दृष्टी से वाक्य-भेद 4 अंक (5 में से 4 प्रश्न)	4	
3	अलंकार -4 अंक) 5 में से 4 प्रश्न( शब्दालंकार :अनुप्रास यमक अर्थालंकार :उपमा, रूपक	4	
	पाठ्यपुस्तक क्षितिज भाग-1		
क	गद्य-खंड		

	1. क्षितिज से निर्धारित पाठों में से गद्यांश के आधार पर विषयवस्तु, शीर्षक चयन, ज्ञान,अवबोध और अभिव्यक्ति परक एक अंकीय पांच बहुविकल्पी प्रश्न $1 \times 5=5$	5	14
	2. क्षितिज से निर्धारित गद्य पाठों के आधार पर विद्यार्थियों की उच्च चिंतन क्षमता एवं ज्ञानभिव्यक्तिपरक एक अंकीय दो बहुविकल्पी प्रश्न $1 \times 2=2$	2	
ख	काव्य-खंड		
	1. क्षितिज से निर्धारित कविताओं में से काव्यांश के आधार पर एक अंकीय पांच बहुविकल्पी प्रश्न 1 $\times 5=5$	5	
	2.क्षितिज से निर्धारित कविताओं के आधार पर विद्यार्थियों का काव्य- बोध परखने हेतु एक अंकीय दो बहुविकल्पी प्रश्न $1 \times 2=2$	2	
खंड-ब (वर्णनात्मकप्रश्न)			
पाठ्यपुस्तक क्षितिज भाग-1 एवं पूरक पाठ्यपुस्तक कृतिका भाग-1			
क	गद्य-खंड		
	क्षितिज से निर्धारित पाठों में से विषयवस्तु का ज्ञान,अवबोध , अभिव्यक्ति आदि परक तीन प्रश्न) विकल्प सहित (शब्द सीमा 25- 30 )4 में से कोई 3 प्रश्न $(2 \times 3 =6$	6	20
ख	काव्य-खंड		
	क्षितिज से निर्धारित कविताओं के आधार विद्यार्थियों का काव्य-बोध परखने हेतु तीन प्रश्न) विकल्प सहित (शब्द सीमा 25- 30 )4 में से कोई 3 प्रश्न 2 $(\times 3 =6$	6	
ग	पूरक पाठ्यपुस्तक कृतिका भाग-1		
	कृतिका निर्धारित पाठों आधारित दो प्रश्न शब्द सीमा 50- 60शब्द (3 में से कोई 2 प्रश्न)	8	

लेखन			
क	विभिन्न विषयों और संदर्भ पर विद्यार्थियों के तर्कसंगत विचार प्रकट करने की क्षमता को परखने के लिए संकेत बिन्दु आधारित समसामयिक एवं व्यावहारिक जीवन से संबंधित विषय पर लगभग 120 शब्दों में एक अनुच्छेद। 3 में से कोई(1	6	20
ख	अभिव्यक्ति की क्षमता पर केन्द्रित औपचारिक एवं अनौपचारिक विषय पर लगभग 100 शब्दों में पत्र (विकल्प सहित) (5×1-5)	5	
ग	दिए गए विषय/शीर्षक के आधार पर रचनात्मक सोच के साथ लगभग 100 शब्दों में लघुकथा लेखन) 5×1-5)  अथवा विविध विषयों पर आधारित लगभग 100 शब्दों में औपचारिक ई-मेल लेखन।	5	
घ	दी गई परिस्थितियों के आधार पर लगभग 80 शब्दों में संवाद-लेखन) 4×1=4)  अथवा व्यावहारिक जीवन से संबंधित विषयों पर आधारित लगभग 80 शब्दों में सूचना-लेखन	4	
	कुल योग		80
	आंतरिक मूल्यांकन		20
	सामयिक आकलन	5	
	पोर्टफोलियो	5	
	बहुविध आकलन	5	
	विषय समृद्धि क्रियाकलाप	5	
	समेकित योग		100

माह	कार्य दिवस	कालांश	विषयवस्तु/ पाठ का नाम	परियोजना कार्य /क्रियाकलाप
अप्रैल 2024	24	24	क्षितिज भाग-1 दो बैलों की कथा) कहानी(-) मुंशी प्रेमचंद( ल्हासा की ओर- राहुल सांकृत्यायन कबीर की साखियों) काव्य (सबद- कबीर व्याकरण- शब्द निर्माण-उपसर्ग , प्रत्यय अपठित गद्यांश	कक्षा में दो बैलों की कथा के आधार पर सद्गुणों पर परिचर्चा व लेखन  साखियां-संग्रह, कबीर के समाज सुधारों का साखियों के आधार पर वर्णन
<b>आवधिक परीक्षा1-</b>				
जुलाई2024	26	26	कृतिका भाग-1 इस जल प्रलय में-फणीश्वरनाथ रेणु व्याकरण- औपचारिक एवं अनौपचारिक पत्र-लेखन अलंकार : परिचय शब्दालंकार -अनुप्रास, यमक अपठित काव्यांश	विद्यार्थियों द्वारा स्वयात्रा का रोचक वर्णन
अगस्त 2024	25	25	क्षितिज भाग-1 उपभोक्तावादी संस्कृति- श्याम चरण दुबे वाख) कविता -(ललदयद कृतिका भाग-1 मेरे संग की औरतें- मृदुला गर्ग व्याकरण- अर्थालंकार -उपमा, रूपक	अलंकारों का वर्गीकरण करते हुए चार्ट बनाइये
<b>आवधिक परीक्षा2-</b>				

माह	कार्य दिवस	कालांश	विषयवस्तु/ पाठ का नाम	परियोजना कार्य /क्रियाकलाप
सितंबर 2024	17	17	क्षितिज भाग-1 सवैये-रसखान) कविता( कैदी और कोकिला- माखनलाल चतुर्वेदी )कविता( लघुकथा लेखन, औपचारिक ई-मेल लेखन पुनरावृत्ति	आधुनिक कैदी एवं स्वतंत्रता संग्राम के समय के कैदियों के वातावरण के मध्य अंतर पर परिचर्चा
अक्टूबर 2024	21	21	क्षितिज भाग-1 सांवले सपनों की याद -जाबिर हुसैन *नाना साहब की पुत्री देवी मैना को भस्म कर दिया गया- चपला देवी* परसाई अनुच्छेद-लेखन	‘नाना साहब’ पर अनुच्छेद-लेखन
<b>अर्द्धवार्षिक परीक्षा</b>				
नवंबर 2024	20	20	क्षितिज भाग-1 ग्रामश्री) कविता (-सुमित्रानंदन पंत *चंद्रगहना से लौटती बेर- केदारनाथ अग्रवाल* मेरे बचपन के दिन- महादेवी वर्मा व्याकरण- प्रेमचंद के फटे जूते – हरिशंकर परसाई वाक्य :सामान्य परिचय, वाक्य भेद -अर्थ के आधार पर	वाक्य-भेद का चार्ट ‘बचपन के दिन’ पर विचार प्रकट

माह	कार्य दिवस	कालांश	विषयवस्तु/ पाठ का नाम	परियोजना कार्य /क्रियाकलाप
दिसंबर 2024	20	20	क्षितिज भाग-1 मेघ आये-सर्वेश्वरदयाल सक्सेना) कविता( *यमराज की दिशा -चंद्रकांत देवताल* कृतिका भाग-1 रीढ़ की हड्डी- जगदीशचंद्रमाथुर व्याकरण- समास	प्राकृतिक सौंदर्य वर्णन प्रकृति-पुरुष सम्बन्ध पर परिचर्चा शब्द निर्माण के अंतर्गत समास वर्गीकरण का चार्ट
जनवरी 2025	14	14	क्षितिज भाग-1 बच्चे काम पर जा रहे हैं- राजेश जोशी )कविता( कृतिका भाग-1 *माटी वाली-विद्यासागर नौटियाल*	‘बाल श्रम एक अपराध है’ इस विषय पर संवैधानिक नियमों का संकलन का संकलन तैयार करें
आवधिक परीक्षा-3				
फरवरी 2025	24	24	क्षितिज भाग-1 एक कुत्ता और एक मैना )हजारी प्रसाद द्विवेदी*( कृतिका भाग-1 *किस तरह आखिरकार मैं हिन्दी में आया- शमशेर बहादुर सिंह* संवाद-लेखन सूचना-लेखन	कक्षा संवाद
आवधिक परीक्षा-4				
मार्च 2025			सम्पूर्ण पाठ्यक्रम पुनरावृत्ति पुनरावृत्ति विद्यार्थियों की आवश्यकतानुसार	
वार्षिक परीक्षा				

टिप्पणी-‘केन्द्रीयमाध्यमिकशिक्षाबोर्ड’केद्वाराकियागयासंशोधन मान्यहोगा।

**नवोदयविद्यालयसमिति**

**कक्षा-9**

**विषय हिन्दी 'ब'**

परीक्षा भार विभाजन		
	विषयवस्तु	भार
	<b>खंड अ) वस्तुपरक प्रश्न(</b>	<b>40</b>
1	<b>अपठित गद्यांश</b>	<b>10</b>
	अ) दो अपठित गद्यांश) लगभग 200 शब्दों के (बिना किसी विकल्प के ) $1 \times 5 = 5$ (+) $1 \times 5 = 5$ ( )दोनों गद्यांशों में एक अंकीय पाँच-पाँच प्रश्न पूछे जाएँगे(	10
2	<b>व्यावहारिक व्याकरण के आधार पर बहुविकल्पात्मक प्रश्न) 1 अंक<math>\times</math>16 प्रश्न( कुल 21 प्रश्न पूछे जायेंगे जिनमें से केवल 16 प्रश्नों के उत्तर देने होंगे।</b>	<b>16</b>
	1) शब्द और पद) 2 अंक) (बिना किसी विकल्प के) (2 में से 2 प्रश्न(	02
	2) अनुस्वार) 1 अंक (अनुनासिक) 1 अंक) (3 में से 2 प्रश्न(	02
	3) उपसर्ग) 2 अंक (प्रत्यय) 2 अंक) (5 में से 4 प्रश्न(	04
	4) स्वर संधि) 3 अंक) (4 में से 3 प्रश्न(	03
	5) विराम-चिह्न) 3 अंक) (4 में से 3 प्रश्न(	03
	6) अर्थ की दृष्टि से वाक्य भेद) 2 अंक) (3 में से 2 प्रश्न(	02
3	<b>पाठ्यपुस्तक स्पर्श भाग 1</b>	<b>14</b>
	<b>काव्य खंड</b>	<b>7</b>
	पठित पद्यांश पर एक अंकीय पाँच बहुविकल्पी प्रश्न) $1 \times 5 = 5$ (	5
	स्पर्श भाग 1 से निर्धारित कविताओं के आधार पर एक अंकीय दो बहुविकल्पी प्रश्न पूछे जाएँगे।) $1 \times 2 = 2$ (	2
	<b>गद्य खंड</b>	<b>7</b>
पठित गद्यांश पर एक अंकीय पाँच बहुविकल्पी प्रश्न।) $1 \times 5 = 5$ (	5	
स्पर्श भाग 1 से निर्धारित गद्य पाठों के आधार पर विद्यार्थियों की उच्च चिंतन क्षमताओं एवं अभिव्यक्ति का आकलन करने हेतु एक अंकीय दो बहुविकल्पी प्रश्न पूछे जाएँगे।) $1 \times 2 = 2$ (	2	
	<b>खंड ब) वर्णनात्मक प्रश्न(</b>	
	<b>पाठ्यपुस्तक स्पर्श भाग 1</b>	<b>12</b>



4	1	स्पर्श गद्य खंड से निर्धारित पाठों के आधार पर तीन में से दो प्रश्न पूछे जाएँगे । )3 अंक× 2 प्रश्न)(लगभग 60 शब्द(	06
	2	स्पर्श काव्य खंड से निर्धारित पाठों के आधार पर तीन में से दो प्रश्न पूछे जाएँगे । )3 अंक× 2 प्रश्न)(लगभग 60 शब्द(	06
	<b>पूरक पाठ्यपुस्तक संचयन भाग 1</b>		<b>06</b>
	पूरक पाठ्यपुस्तक संचयन के निर्धारित पाठों से तीन में से दो प्रश्न पूछे जाएँगे जिनका उत्तर लगभग 60 शब्दों में देना होगा।		06
5	<b>लेखन</b>		<b>22</b>
	1	संकेत बिंदुओं पर आधारित समसामयिक एवं व्यावहारिक जीवन से जुड़े किन्हीं तीन विषयों में से एक विषय पर लगभग 120 शब्दों में अनुच्छेद लेखन। )अंक× 1 प्रश्न)(विकल्प सहित(	06
	2	अभिव्यक्ति की क्षमता पर केंद्रित व्यावहारिक विषयों में से किसी एक विषय पर लगभग 120 शब्दों में अनौपचारिक पत्र।) 6 अंक× 1 प्रश्न(	06
	3	चित्र वर्णन -चित्र में दिखाई दे रहे दृश्य/घटना का कल्पनाशक्ति से लगभग 100 शब्दों में वर्णन।) विचारों का वर्णन स्पष्ट रूप से चित्र से ही सम्बद्ध होना चाहिए) (बिना किसी विकल्प के(	05
	4	दी गई परिस्थितियों के आधार पर संवाद लेखन लगभग 100 शब्दों में। )विकल्प सहित(	05
<b>कुल</b>		<b>80</b>	

माह	दिनों की संख्या	कालांश	पाठ का नाम	परियोजना कार्य/क्रिया कलाप	आवधिक परीक्षा/टर्म1/ पुनरावृत्ति / वार्षिक परीक्षा
अप्रैल 2024	24	12	1 दुःख का अधिकार-यशपाल )गद्य( 2 पद - रैदास) पद्य( 3 गिल्लू - महादेवी वर्मा )संचयन( 4 अनौपचारिक पत्र लेखन <b>व्याकरण और रचनात्मक लेखन</b> -अनुस्वार, अनुनासिक -अपठित गद्यांश	1 भित्ति पत्रिका का निर्माण 2 वाद-विवाद प्रतियोगिता विषय -पोशाक एवं व्यक्तित्व। 3 स्वागत भाषण का अभ्यास।	आवधिक परीक्षा-1
जुलाई 2024	26	13	1.एवरेस्ट मेरी शिखर यात्रा- बचेंद्रीपाल) गद्य( <b>व्याकरण और रचनात्मक लेखन</b> - अनुच्छेद लेखन - उपसर्ग ,प्रत्यय	1. पीटी उषा, आरती साहा, किरण बेदी, कल्पना चावला का संक्षिप्त परिचय। 2. संस्कृत एवं उर्दू के उपसर्गों से बनने वाले शब्दों का संचयन।	
अगस्त 2024	25	13	1.तुम कब जाओगे अतिथि - शरद जोशी) गद्य( 2 रहीम के दोहे- रहीम) पद्य( 3स्मृति - श्री राम शर्मा )संचयन( <b>व्याकरण और रचनात्मक लेखन</b> - चित्र वर्णन - संवाद लेखन	1अतिथि देवों भवः सूक्ति की व्याख्या : आधुनिक परिप्रेक्ष्य में। 2 कक्षा में कोई कहानी सुनाइए या किसी घटना का वर्णन कीजिए।	आवधिक परीक्षा-2

माह	दिनों की संख्या	कालांश	पाठ का नाम	परियोजना कार्य/क्रिया कलाप	आवधिक परीक्षा/टर्म1/ पुनरावृत्ति / वार्षिक परीक्षा
सितम्बर 2024	17	08	1 गीत-अगीत- रामधारी सिंह दिनकर) पद्य( <b>व्याकरण और रचनात्मक लेखन</b> -अनौपचारिक पत्र लेखन -विराम चिह्न -शब्द और पद	1 सुलेखन प्रतियोगिता 2 कवि सम्मेलन	
<b>अर्द्धवार्षिक परीक्षा</b>					
अक्टूबर 2024	21	11	<b>बहुविध आकलन :</b> प्रश्नोत्तरी ,भाषण ,वाद-विवाद , रचनात्मक लेखन ,सस्वर वाचन )इनमें से कोई एक करें(	-भारत के प्रमुख वैज्ञानिकों का उनके योगदान के साथ संक्षिप्त परिचय दीजिए ।	
नवम्बर 2024	20	10	1 वैज्ञानिक चेतना के वाहक: चन्द्रशेखर वैकटरमन् - धीरंजन मालवे) गद्य( 2 अग्निपथ- हरिवंश राय बच्चन )पद्य(	-लघु कथा लेखन /कविता लेखन	
दिसम्बर 2024	20	10	3 कल्लू कुम्हार की उनाकोटी - विक्रम सिंह) संचयन( <b>व्याकरण और रचनात्मक लेखन</b> -स्वर संधि -अर्थ की दृष्टि से वाक्य भेद	- विद्यार्थियों के अनुभवों से संबंधित विषय पर सामूहिक चर्चा करें।	आवधिक परीक्षा-3

माह	दिनों की संख्या	कालांश	पाठ का नाम	परियोजना कार्य/क्रिया कलाप	आवधिक परीक्षा/टर्म1/ पुनरावृत्ति / वार्षिक परीक्षा
जनवरी 2025	14	07	1. नए इलाके में , खुशबू रचते हैं हाथ-अरुण कमल) पद्य( 2मेरा छोटा-सा निजी पुस्तकालय - धर्मवीर भारती	1. 4-5 देशभक्ति गीतों का संकलन करके कंठस्थ करें। 2. बाल मजदूरी से संबंधित सांवैधानिक नियमों पर सामूहिक चर्चा करें।	
फरवरी 2025	24	12	-शुक्र तारे के समान - स्वामी आनंद) गद्य( आंतरिक मूल्यांकन में पोर्टफोलियो पुनरावर्तन		आवधिक परीक्षा-4
मार्च 2025				पुनरावर्तन वार्षिक परीक्षा	

**नोट :- निम्नलिखित पाठों से किसी भी प्रकार के प्रश्न नहीं पूछे जाएंगे।**

स्पर्शभाग I	a) धर्मकीआड़ (पूरापाठ) b) आदमीनामा (पूरापाठ) c) एकफूलकीचाह (पूरापाठ)
संचयनभाग I	d) हामिदखां (पूरापाठ) e) दियेजलउठे (पूरापाठ)

टिप्पणी सीबीएसई के द्वारा किया गया संशोधन मान्य होगा -

## NAVODAYA VIDYALAYA SAMITI

### Split up of Syllabus 2024-25

**CLASS:IX**

**SUBJECT: MATHEMATICS**

UnitNo	NameofTheChapter/unit	Periods	Marks
I	NUMBERSYSTEMS	18	10
II	ALGEBRA	42	20
III	COORDINATEGEOMETRY	07	04
IV	GEOMETRY	74	27
V	MENSURATION	22	13
VI	STATISTICS&PROBABILITY	15	06
	Total	178	80
	<b>InternalAssessment(20Marks)</b>		20
	<b>PenPaperTestandMultipleAssessment(05M+05M)</b>		
	<b>Portfolio (05Marks)</b>		
	<b>LabPractical(LabActivitiestobedonefromtheprescribedbooks(05Marks)</b>		
	GrandTotal		100

MONTH	NO OF DAYS	NO. OF PERIODS	Weightage of Marks for the Unit / Chapter	Units / Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/Projects to be given	Unit Tests / Formative Tests / Assignment
APRIL 2024	22	18	10	<p><b>UNIT – I: NUMBER SYSTEMS</b>  <b>REAL NUMBERS</b>                      1) Review of representation of natural numbers, integers, and rational numbers on the number line. Rational numbers as recurring/terminating decimals. Operations on real numbers.                      2) Examples of non-recurring / non-terminating decimals. Existence of non-rational numbers (irrational numbers) such as <math>\sqrt{2}, \sqrt{3}</math> and their representation on the number line. Explaining that every real number is represented by a unique point on the number line and conversely, viz. every point on the number line represents a unique real number.                      3) Definition of <math>n^{\text{th}}</math> root of a real number.                      4) Rationalization (with precise meaning) of real numbers of the type <math>\frac{a+b\sqrt{x}}{c+d\sqrt{x}}</math> and <math>\frac{a+b\sqrt{x}}{c+d\sqrt{y}}</math> (and their combinations)  <math display="block">\frac{a+b\sqrt{x}}{c+d\sqrt{x}} \cdot \frac{c-d\sqrt{x}}{c-d\sqrt{x}} = \frac{(a+b\sqrt{x})(c-d\sqrt{x})}{c^2-dx}</math>                     where x and y are natural number and a and b are integers.                      5) Recall of laws of exponents with integral powers. Rational exponents with positive real bases (to be done by particular cases, allowing learner to arrive at the general laws.)</p> <p><b>UNIT-V: MENSURATION</b>  <b>AREAS (Heron's Formula)</b>                      Area of a triangle using Heron's formula (without proof)</p>	<p><b>Activity-1</b>                      To construct a square root spiral.</p> <p><b>Activity-2</b>                      To represent some irrational numbers on the number line.</p>	PWT 26-29 APRIL
		05	12 (For full Mensuration Unit)			

MONTH	NO OF DAYS	NO. OF PERIODS	Weightage of Marks for the Unit / Chapter	Units / Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/Projects to be given	Unit Tests / Formative Tests / Assignment
JULY 2024	26	10	20 (For full Algebra Unit)	<b>UNIT-II: ALGEBRA</b> <b>LINEAR EQUATIONS IN TWO VARIABLES</b> Recall of linear equations in one variable. Introduction to the equation in two variables. Focus on linear equations of the type $ax + by + c = 0$ . Explain that a linear equation in two variables has infinitely many solutions and justify their being written as ordered pairs of real numbers, plotting them and showing that they lie on a line.	<b>Activity-11</b> To find the values of abscissa and ordinates of various points given in a Cartesian plane.	
		07		<b>UNIT - III: COORDINATE GEOMETRY</b> <b>COORDINATE GEOMETRY</b> The Cartesian plane, coordinates of a point, names and terms associated with the coordinate plane, notations.	<b>Activity-13</b> To verify Experimentally that if two lines intersect, then <ul style="list-style-type: none"> <li>the vertically opposite angles are equal.</li> <li>the sum of two adjacent angles is <math>180^\circ</math>.</li> </ul> the sum of all the four angles is $360^\circ$	
		10	04	<b>UNIT - IV: GEOMETRY</b> <b>LINES AND ANGLES</b> 1) (Motivate) If a ray stands on a line, then the sum of the two adjacent angles so formed is $180^\circ$ and the converse. 2) (Prove) If two lines intersect, vertically opposite angles are equal. 3) (Motivate) Lines which are parallel to a given line are parallel.		

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

MONTH	NO OF DAYS	NO. OF PERIODS	Weightage of Marks for the Unit / Chapter	Units / Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/Projects to be given	Unit Tests / Formative Tests / Assignment
AUGUST 2024	22	22	27 (For full Geometry Unit)	<p><b>TRIANGLES</b></p> <p>1) (Motivate) Two triangles are congruent if any two sides and the included angle of one triangle is equal to any two sides and the included angle of the other triangle (SAS Congruence).</p> <p>2) (Prove) Two triangles are congruent if any two angles and the included side of one triangle is equal to any two angles and the included side of the other triangle (ASA Congruence).</p> <p>3) (Motivate) Two triangles are congruent if the three sides of one triangle are equal to three sides of the other triangle (SSS Congruence)</p> <p>4) (Motivate) Two right triangles are congruent if the hypotenuse and a side of one triangle are equal (respectively) to the hypotenuse and a side of the other triangle. (RHS Congruence)</p> <p>5) (Prove) The angles opposite to equal sides of a triangle are equal. (Motivate) The sides opposite to equal angles of a triangle are equal.</p>	<p><b>Activity-14</b> To verify experimentally the different criteria for congruency of triangles using triangle cut-outs.</p> <p><b>Activity-15</b> To verify that the sum of the angles of a triangle is <math>180^\circ</math>.</p>	PWT-2(08-10 August 2024)
SEPTEMBER 2024	16	15	06	<p><b>UNIT – VI: STATISTICS &amp; PROBABILITY STATISTICS</b> Bar graphs, histograms (with varying base lengths), and frequency polygons. <b>Syllabus for probability not mentioned in both CBSE curriculum and NVS PAP 2024-25</b></p>	<p><b>Activity-32</b></p> <ul style="list-style-type: none"> <li>To draw histograms for classes of equal widths and varying widths.</li> </ul>	
<b>Half Yearly Examination/Term -1 (23.09.24 to 04.10.24)</b>						



MONTH	NO OF DAYS	NO. OF PERIODS	Weightage of Marks for the Unit / Chapter	Units / Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/Projects to be given	Unit Tests / Formative Tests / Assignment
OCT 2024	18	07  08	27 (For full Geometry Unit)	<p><b>INTRODUCTION TO EUCLID'S GEOMETRY</b>                      History-Geometry in India and Euclid's geometry. Euclid's method of formalizing observed phenomenon into rigorous Mathematics with definitions, common/obvious notions, axioms/postulates and theorems. The five postulates of Euclid. Showing the relationship between axiom and theorem, for example: (Axiom) 1. Given two distinct points, there exists one and only one line through them. (Theorem) 2. (Prove) Two distinct lines cannot have more than one point in common.</p> <p><b>QUADRILATERALS</b></p> <ul style="list-style-type: none"> <li>• (Prove) The diagonal divides a parallelogram into two congruent triangles.</li> <li>• (Motivate) In a parallelogram opposite sides are equal, and conversely.</li> <li>• (Motivate) In a parallelogram opposite angles are equal, and conversely.</li> <li>• (Motivate) A quadrilateral is a parallelogram if a pair of its opposite sides is parallel and equal.</li> <li>• (Motivate) In a parallelogram, the diagonals bisect each other and conversely.</li> </ul>		

MONTH	NO OF DAYS	NO. OF PERIODS	Weightage of Marks for the Unit / Chapter	Units / Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/Projects to be given	Unit Tests / Formative Tests / Assignment
NOVEMBER 2024	20	05	27 (For full Geometry Unit)	<p><b>UNIT – IV: GEOMETRY QUADRILATERALS (continue)</b> (Motivate) In a triangle, the line segment joining the mid points of any two sides is parallel to the third side and in half of it and (motivate) its converse.</p> <p><b>UNIT – II: ALGEBRA POLYNOMIALS</b> Definition of a polynomial in one variable, with examples and counter examples. Coefficients of a polynomial, terms of a polynomial and zero polynomial. Degree of a polynomial.</p>	<p><b>Activity-6</b> To verify the algebraic identity: <math>(a+b+c)^2 = a^2+b^2+c^2+2ab+2bc+2ca</math></p>	
DECEMBER -2024	17	14	20 (For full Algebra Unit)	<p><b>POLYNOMIAL (CONTINUE)</b> Constant, linear, quadratic and cubic polynomials. Monomials, binomials, trinomials. Factors and multiples. Zeros of a polynomial. Motivate and State the Remainder Theorem with examples. State the statement and proof of the Factor Theorem. Factorization of <math>ax^2+bx+c</math>, <math>a \neq 0</math> where <math>a, b</math> and <math>c</math> are real numbers, and of cubic polynomials using the Factor Theorem. Recall of algebraic expressions and identities. Verification of identities: <math>(x+y+z)^2 = x^2+y^2+z^2+2xy+2yz+2zx</math> <math>(x+y)^3 = x^3+y^3+3xy(x+y)</math> <math>x^3+y^3 = (x+y)(x^2+xy+y^2)</math> <math>x^3+y^3+z^3-3xyz = (x+y+z)(x^2+y^2+z^2-xy-yz-zx)</math> and their use in factorization of polynomials</p>	<p><b>Activity-20</b> To find the formula for the area of a trapezium experimentally.</p>	PWT-31 2 DEC - 14 DEC 24

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

MONTH	NO OF DAYS	NO OF PERIODS	Weightage of Marks for the Unit / Chapter	Units / Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/Projects to be given	Unit Tests / Formative Tests / Assignment
JANUARY 2025	15	17	27 (For full Geometry Unit)	<b>CIRCLES</b> 1.(Prove) Equal chords of a circle subtend equal angles at the centre and (motivate) its converse. 2.(Motivate) The perpendicular from the centre of a circle to a chord bisects the chord and conversely, the line drawn through the centre of a circle to bisect a chord is perpendicular to the chord. 3. (Motivate) Equal chords of a circle (or of congruent circles) are equidistant from the centre (or their respective centres) and conversely. 4.(Prove) The angle subtended by an arc at the centre is double the angle subtended by it at any point on the remaining part of the circle. 5.(Motivate) Angles in the same segment of a circle are equal. 6.(Motivate) If a line segment joining two points subtends equal angle at two other points lying on the same side of the line containing the segment, the four points lie on a circle. 7.(Motivate) The sum of either of the pair of the opposite angles of a cyclic quadrilateral is $180^\circ$ and its converse.	<b>Activity-23</b> To verify that the angles in the same segment of a circle are equal	
FEBRUARY 2025	21	17	13 (For full Mensuration Unit)	<b>Unit-VMensuration SURFACE AREAS &amp; VOLUMES</b> Surface areas and volumes of spheres (including hemispheres) and right circular cones.	<b>Activity-30</b> To find a formula for the curved surface area of a right circular cylinder, experimentally	PWT-4 06 FEB- 08 FEB 2024
MARCH 2025	24			<b>REVISION &amp; TERM-II/ANNUAL EXAMINATION</b> 17-28 March 2025		

prescribed Books:

- Mathematics-Text book for Class IX, NCERT Publication
- Mathematics Exemplar Problems for Class IX, Published by NCERT

- Laboratory Manual-Mathematics, secondary stage, published by NCERT
- Guidelines for mathematics Laboratory in Schools, Class IX- CBSE Publication  
<http://www.ncert.nic.in/exemplar/labmanuals.html>

NAVODAYA VIDYALAYA SAMITI

CLASS :IX

SUBJECT : SCIENCE (086)

Unit No.	Unit	Marks	Periods
I	Matter-ItsNatureand behavior Chapters(1-4)	25	78
II	Organizationinthelivingworld Chapters(5-6)	22	59
III	Motion,ForceandWorkChapte rs(8-12)	27	78
IV	Food:FoodProductionChapters(15)	06	19
	Total	80	
	Internalassessment 1. PeriodicWrittenTest(5M) 2. Multipleassessment(5M) 3. Portfolio(5M) 4. Subjectenrichmentactivit y(5M)	20	
	GrandTotal	100	

MONTH	NO. OF DAYS	NO. OF PERIODS	MAIN TOPICS AND SUB-TOPICS TO BE COVERED	PRACTICALS/ ACTIVITIES PRACTICAL EXPERIMENTS TO HELD/ SPECIFIC ASSESMENT TOOLS (SUGGESTED)
APRIL-2024	22DAYS	09	<b>Organization in Living World</b> Cell - Basic Unit of life : Cell as a basic unit of life; prokaryotic and eukaryotic cells, Multicellular organisms; cell membrane and cell wall, Nucleus, chromosome- basic structure, number. cell organelles and inclusions	1.To prepare stained temporary mounts of (a) onion peel and (b)Human cheek cells and to record observations and draw their labeleddiagrams.
		09	<b>Matter its Nature and Behavior:</b> Definition of matter- solid, liquid and gas. Characteristics-shape, volume, density.	To determine the Melting point of ice and the boiling point of water

MONTH	NO. OF DAYS	NO. OF PERIODS	MAIN TOPICS AND SUB-TOPICS TO BE COVERED	PRACTICALS/ ACTIVITIES PRACTICAL EXPERIMENTS TO HELD/ SPECIFIC ASSESMENT TOOLS (SUGGESTED)
		09	<b>Motion Force &amp; Work</b> :-Idea of motion, types with examples ,Distance and displacement, velocity; uniform and non-uniform motion along a straight line	
<b>PWT – 1 :- 26 -29 April- 2024</b>				
<b>JULY-2024</b>	<b>26 DAYS</b>	12	<b>Organization in Living World</b> Cell - Basic Unit of life : endoplasmic reticulum, Golgi apparatus, chloroplast, mitochondria, vacuoles	
		12	<b>1.Matter its Nature and Behavior:</b> <b>Matter in Our Surroundings</b> Change of state- melting, freezing, evaporation, Condensation, sublimation, Evaporation (cooling by evaporation).	To prepare a)mixture b)compound using iron filings and sulphur powder and Distinguish these on the basis of i)appearance i.e. homogeneity/heterogeneity ii)Behavior towards a magnet iii)behavior towards carbon dioxide sulphide Effect of heat.
		12	<b>Motion Force &amp; Work:</b> Acceleration ,distance-time and velocity-time graphs for uniform motion and uniformly accelerated motion, elementary idea of uniform circular motion <b>Force and Newton’s laws:</b> Force and motion Newton’s laws of motion	
<b>AUGUST-2024</b>	<b>22 DAYS</b>	09	<b>Tissues, Organs, Organ System, Organism</b> Structure and functions of Animals and plant tissues (Only four types of tissues in animal’s meristematic and permanent tissues in plants).	2. To identify parenchyma and Collenchyma, sclerenchyma tissues in plants striated, smooth and cardiac muscle fibers and nerve cells in animals from prepared slides and to draw their labeled diagrams.
		09	<b>Nature of Matter:</b> <b>Is Matter Around Us Pure</b> Elements, compounds and mixtures. homogeneous/ heterogeneous Mixtures	Practical. :To carry out the following reactions and classify them as physical and chemical changes a)reaction between iron and copper

MONTH	NO. OF DAYS	NO. OF PERIODS	MAIN TOPICS AND SUB-TOPICS TO BE COVERED	PRACTICALS/ ACTIVITIES PRACTICAL EXPERIMENTS TO HELD/ SPECIFIC ASSESMENT TOOLS (SUGGESTED)
			:	sulphate solution. b)burning of magnesium ribbon in air. c)zincwithdil.H <sub>2</sub> SO <sub>4</sub> d)Heating of CuSO <sub>4</sub> . Na <sub>2</sub> SO <sub>4</sub> (aq)and BaCl <sub>2</sub> (aq)
		09	<b>Motion Force &amp; Work:</b> Action and reaction forces, inertia of a body inertia and mass ,momentum, force and acceleration Momentum, force and acceleration.	
		<b>PeriodWrittenTest-2: 08 TO 10 August 2024</b>		
SEPTEMBER-2024	17 DAYS	08	Tissues, Organs, Organ System, Organism	-----
		08	<b>Matter Its Nature AndBehavior:</b> True, Colloids and suspension	Preparation of true, suspension and colloidal solution and distinguishing them on the basis of I. Transparency2.filteration3.Stability II. Performing following reactions 1. Iron with copper sulphate solution in water2.Burning of magnesium ribbon in air 3. Zinc with dilute sulphuric acid
		08	<b>Motion, Force and Work:</b> <b>Gravitation:</b> Gravitation; universal law of gravitation, force of gravitation of the earth(gravity),	Determination of density of solid using spring balance and measuring cylinder.
		<b>TERM-I :- 23 September To 4 OCT 2024</b>		
OCTOBER 2024	18 Days	07	<b>Matter Its Nature AndBehavior:</b> , Physical and Chemical changes(Excluding separating the components of a mixture)	1. Heating of copper sulphate crystals Sodium sulphate with barium chloride in the form of their solutions in water
		07	<b>Gravitation:</b> Acceleration due to gravity; mass and weight; free fall.	.....
		07	Structure and functions of Animal tissues(four types of tissues in animals)	.....
November 2024	20 Days	09	Food Production: Plant and Animal breeding	.....
		9	<b>Matter its Nature and Behavior</b>	Verification of the law of conservation

MONTH	NO. OF DAYS	NO. OF PERIODS	MAIN TOPICS AND SUB-TOPICS TO BE COVERED	PRACTICALS/ ACTIVITIES PRACTICAL EXPERIMENTS TO HELD/ SPECIFIC ASSESMENT TOOLS (SUGGESTED)
			Atoms and Molecules, Chemical Formula of common compounds, Law of Chemical combination, Atomic and molecular masses,	of mass in a chemical reaction.
		09	<b>Motion Force &amp; Work Floatation:</b> Thrust And pressure. Archimedes's principle, buoyancy,	To establish the relation between the loss in weight of a solid when fully immersed 1) Tap water 2) Strongly salted water
DECEMBER-2024	17 DAYS	08	<b>Improvement in Food Resources:</b> Selection for Quality Improvement and Management	
		08	<b>Atoms and Molecules:</b> Valence, Chemical formulae of common compounds. <b>Structure of Atoms:</b> Electrons, protons and neutrons, valency	
		08	<b>Work, energy and Power:</b> Work done by force, energy power, kinetic energy, potential energy, law of conservation of energy (excluding commercial unit of energy)	
			<b>Periodic Written Test-3 12 To 14 December 2024</b>	
January-2025	15 days	07	<b>Sound</b> : Nature of sound and its propagation in various media speed of sound.	Verification of law of Reflection of sound,
		07	<b>Structure of Atoms:</b> Atomic number, mass number, Valency	
		07	<b>Improvement in Food Resources:</b> Use of Fertilizers and manures	
			<b>Periodic Written Test- 4 06 To 08 February 2025</b>	
Feb2025	21 days	07	<b>Sound</b> : Range of hearing in humans; ultrasound, Reflection of sound ,echo +	Determination of speed of pulse propagated through a stretched string
		07	<b>Structure of Atoms:</b> Isotopes and isobars +	
		07	<b>Revision</b> <b>Improvement in Food Resources:</b> Protection from pests, and Diseases, Organic	



Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

MONTH	NO. OF DAYS	NO. OF PERIODS	MAIN TOPICS AND SUB-TOPICS TO BE COVERED	PRACTICALS/ ACTIVITIES PRACTICAL EXPERIMENTS TO HELD/ SPECIFIC ASSESMENT TOOLS (SUGGESTED)
			farming + <b>Revision</b>	
March-2025			<b>TERM-II EXAMS :- 17 To 28 MARCH 2025</b>	

**NAVODAYA VIDYALAYA SAMITI**

**CLASS :IX**

**SUBJECT: SOCIAL SCIENCE**

UNITS	NAME OF THE CHAPTER /UNIT NAME	MARKS	PERIODS
I	INDIA AND THE CONTEMPORARY WORLD – I (HISTORY)	20	60
II	CONTEMPORARY INDIA -I (GEOGRAPHY)	20	60
III	DEMOCRATIC POLITICS	20	50
IV	ECONOMICS	20	50
	<b>TOTAL</b>	80	220
	<b>INTERNAL ASSESSMENT</b>	20	
	<b>GRAND TOTAL</b>	100	

MONTH	Working Days	PERIODS	TOPICS & SUB TOPICS	ACTIVITIES PROJECTS / TOOLS
April 2024	22 days	28 period	<p><b>India and Contemporary World – I.</b> <b>The French Revolution: · (Chapter-1)</b></p> <p><b>Contemporary India –I</b> <b>India · Location · Size · India and the World · India’s Neighbors. (Chapter-1)</b></p> <p><b>Economics</b> <b>The Story of Village Palampur: · (Chapter-1)</b></p> <p><b>PWT/UT-1<sup>st</sup> (26-29 April 2024)</b></p>	<ul style="list-style-type: none"> <li>• Compare the manifesto drafted by Olympiad Gouges with the declaration of the Rights of Man and Citizen</li> <li>• Discuss and compare the Declaration of Rights of Man and Citizen of France with the Fundamental Rights of India.</li> <li>• Debate on society of Estate (France) and varna system of Ancient India.</li> <li>• Map activities: locating the important cities/centres of French revolution on the outline political map of France.</li> <li>• Draw a Bar Graph showing some of the highest mountain peaks in Himalayas with their height.</li> <li>• Prepare a table chart showing the extent, location, size, population of 7 largest Countries in the world. Design Poster on Electricity and the changing face of a village” .</li> <li>• Organise a Field trip to have hands on experience in various Farming Activities of Carried out in a Village</li> </ul>

MONTH	Working Days	PERIODS	TOPICS & SUB TOPICS	ACTIVITIES PROJECTS / TOOLS
JULY 2024	26 days	34 period	<b>Democratic Politics -I</b> <b>What is Democracy? Why Democracy? •</b> <b>(Chapter-1)</b>	<ul style="list-style-type: none"> <li>Brain teaser question - Is it good to elect someone as president for life? Or is it better to hold regular elections after every few years.</li> <li>Hold debate on the topic "Is it possible to have direct democracy in India"?</li> </ul>
			<b>Contemporary India –I</b> <b>Physical Features of India: •</b> <b>(Chapter-2)</b>	<ul style="list-style-type: none"> <li>Prepare a Power Point presentation on "Theory of Plate Tectonics" with 3D effects</li> <li>Develop Geography Park representing Physical features of India and their importance.</li> </ul>
			<b>India and contemporary world – I</b> <b>Socialism in Europe and the Russian Revolution: (Chapter-2)</b>  <b>Economics</b> <b>People as Resource: • (Chapter-2)</b>	<ul style="list-style-type: none"> <li>Hold debate and discussion on the relevancy and application capitalists and socialist ideas on private property in Contemporary Indian Society.</li> <li>Comparative study on pros and cons of Collective Farming (Kolkhoz) in Russia and Intensive and Extensive farming in India.</li> <li>The Mono act OR Role play on the personalities involved in the Russian revolution.</li> <li>Map Activities: On the outline political map of world ( For location and labeling /identification) Major countries of first world war, Central powers and Allied powers. 1.Brain Teaser question The large population need not be a liability; It can be turned into a productive asset".</li> <li>Present a Skit- How Doctor, Teacher, Engineer and Tailor are an asset to the Economy.</li> </ul>
AUGUST 2024	22 DAYS	28 PERIODS	<b>India and contemporary world – I</b> <b>Nazism and the Rise of Hitler:</b>	<ul style="list-style-type: none"> <li>Hold seminar on the topic Hitler came to power by election but later on he became a dictator. Why do we think such a situation cannot arise in</li> </ul>

MONTH	Working Days	PERIODS	TOPICS & SUB TOPICS	ACTIVITIES PROJECTS / TOOLS
			(Chapter-3)	<p>India?</p> <ul style="list-style-type: none"> <li>• Compare and contrast Nazi concentration camps with present day Indian Prisons.</li> <li>• Present a skit on the speeches of Hitler.</li> <li>• 4. Map activities: On the outline political map of world (For locating and labeling / identification) major countries of second world war. Axis powers and Allied powers.</li> </ul>
			<b>Democratic Politics -I Constitutional Design: · (Chapter-2)</b>	<ul style="list-style-type: none"> <li>• Presentation of Autobiography of Nelson Mandela “The long walk to Freedom” in the class room.</li> <li>• Compare the Preamble to the constitution of the USA, INDIA, and South Africa. Make a list of ideas that are common to all these three.</li> </ul>
			<b>Contemporary India –I Drainage Systems in India · (Chapter-3)</b>	<ul style="list-style-type: none"> <li>• Prepare a model on Interlinking of Rivers in India</li> <li>• Draw the any River System of India and label the different parts of the river.</li> </ul>
<b>PWT 2<sup>nd</sup> (08-10 Aug. 2024)</b>				
SEPTEMBER 2024	17 DAYS	23 PERIODS	<b>India &amp; the Contemporary World –I Forest Society and Colonialism: · (Chapter-4)</b>	<ul style="list-style-type: none"> <li>• Visit any Tribal Museum which was setup nearby and collect the life history, customs and traditions of tribal people and compare them with the tribal people living in J&amp;K such as Gujjars, Ghaddis, Bakarawals.</li> <li>• Present a skit on How Forest Laws affected Lively hood of Forest.</li> <li>• Debate on the Baster rebellion (tribal).</li> <li>• Drama o how oral traditions can be used to explore tribal revolts.</li> <li>• Group discussion on causes of deforestation in India during British rule.</li> <li>• Map activities. Locate the major</li> </ul>

MONTH	Working Days	PERIODS	TOPICS & SUB TOPICS	ACTIVITIES PROJECTS / TOOLS
				tribes of India on outline political map of India.
			<b>Contemporary India – I Climate: (Chapter-4)</b>	<ul style="list-style-type: none"> <li>• Demonstration of instruments of elements of weather</li> <li>• Skit on cycle of seasons and their influence on the life of people.</li> </ul>
			<b>Economics Poverty as a Challenge: · (Chapter-3)</b>	<ul style="list-style-type: none"> <li>• Present a Skit on how “Social and economic groups more vulnerable to poverty”</li> <li>• Hold debate on Anti Poverty Measures and Effective implementation.</li> </ul>
			<b>Democratic Politics –I Electoral Politics (Chapter-3)</b>	<ul style="list-style-type: none"> <li>• Hold Mock Polling &amp;</li> <li>• Counting in Class Room</li> <li>• Hold Mock cabinet meeting and passing G.Os in class room</li> <li>• Role play -Returning officer of an election</li> </ul>
<b>MID-TERM (23 Sep. – 04 Oct. 2024 )</b>				
<b>OCTOBER 2024</b>	<b>18 DAYS</b>	<b>24 PERIODS</b>	<b>Contemporary India – I Natural Vegetation and Wild Life: · (Chapter-5)</b>	<ul style="list-style-type: none"> <li>• Hold Live Demo of Medicinal plants and their uses</li> <li>• Hold group discussion on the subject human beings can learn from plants and animals to live harmoniously with mutualco-operation.</li> </ul>
			<b>Economics Food Security in India: (Chapter-4 ½ chapter)</b>	<ul style="list-style-type: none"> <li>• Collect data about the places of India where starvation deaths have been reported from different sources and prepare a brief report with steps / precautions can be taken to mitigate and avoid such an instances.</li> </ul>

MONTH	Working Days	PERIODS	TOPICS & SUB TOPICS	ACTIVITIES PROJECTS / TOOLS
NOVEMBER 2024 2024	20 DAYS	26 PERIODS	<p><b>Democratic Politics -I</b> <b>Working of Institutions:</b> <b>(Chapter-4)</b></p> <p><b>Economics</b> <b>Food Security in India:</b> <b>(Chapter-4 ½ chapter)</b></p>	<ul style="list-style-type: none"> <li>• Mock Parliament</li> <li>• Role play- President of India</li> <li>• Hold debate on Contribution of public distribution system in ensuring food security to the poor people of India..</li> </ul>
DECEMBER 2024	17 days	23 period	<p><b>India and the Contemporary World – I</b> <b>Pastoralists in the Modern World: ·</b> Pastoral Nomads and their Movements · Colonial Rule and Pastoral Life · Pastoralism in Africa. <b>(Chapter-5)</b> <b>PWT III (12-14 Dec. 2024)</b></p>	<ul style="list-style-type: none"> <li>• Collect the information regarding the “A Camel Fair at Pushkar” and prepare the album.</li> <li>• Undertake project on the topic pastoralists of Himalayas are at the cross roads.</li> <li>• Present a skit/drama / an Article on the lifestyle of Raikas and Gollas (any pastoral communities) Highlight the significance of pastoral culture in India.</li> <li>• Map activities. Locating the major Nomads (Pastoral community) of India on the outline map of India.</li> </ul>
JANUARY 2025	12 DAYS	16 PERIOD	<p><b>Contemporary India – I</b> <b>Population:</b> <b>(Chapter-6)</b></p>	<ul style="list-style-type: none"> <li>• Skit-Benefits of Small Family</li> <li>• Skit- “Protect Girl Child”</li> <li>• Draw the Population density- Maps of your city town. 1.Of the women in India are given 50%</li> <li>• reservation in the legislatures what</li> </ul>

MONTH	Working Days	PERIODS	TOPICS & SUB TOPICS	ACTIVITIES PROJECTS / TOOLS
				will be its impact on the nation
<b>PWT-IV (06-08 Feb. 2025)</b>				
FEBRUARY 2025	20 DAYS	26 PERIODS	<b>Democratic Politics -I Democratic Rights: · (Chapter-5)</b>	<ul style="list-style-type: none"> <li>• Write news article to spread the awareness of human rights and struggles for human dignity.</li> <li>• Collect news clipping related to human/citizen rights.</li> </ul>
March-2025	<b>Revision</b> <b>Term End (17-28 March 2025)</b>			

**NAVODAYA VIDYALAYA SAMITI**

**CLASS : IX**

**SUBJECT : COMPUTER (BASICS & FOUNDATION)**

<b>DISTRIBUTION OF MARKS</b>				
Unit No.	Unit Name	Marks	Periods	
			Theory	Practical
1.	Basics of Information Technology	20	20	10
2.	Cyber Safety	15	10	05
3.	Office tools	15	20	55
4.	Lab exercises	50	-	-
	<b>Total</b>	<b>100</b>	<b>50</b>	<b>70</b>

Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical / Projects
April	22	10T+5P	20 MARKS	<b>Unit 1: Basics of Information Technology</b> <ul style="list-style-type: none"> <li>Computer Systems: characteristics of a computer, components of a computer system – CPU, memory, storage devices and I/O devices</li> <li>Memory: primary (RAM and ROM) and secondary memory</li> <li>Storage devices: hard disk, CD ROM, DVD, pen/flash drive, memory stick</li> </ul>	Navigation of the file system using a mouse and keyboard.
<b>PWT-01/UT- 01 (26-29 APRIL 2024)</b>					
JULY	27	10T+5P		<b>Unit 1: Basics of Information Technology (Continued....)</b> <ul style="list-style-type: none"> <li>I/O devices: keyboard, mouse, monitor, printer, scanner, web camera</li> <li>Types of software: system software (operating system, device drivers), application software including mobile applications</li> <li>Computer networking: Type of networks: PAN, LAN, MAN, WAN, wired/wireless communication, Wi-Fi, Bluetooth, cloud computers (Private/public)</li> <li>Multimedia: images, audio, video, animation</li> </ul>	Explore computer parts available in Lab Explore and create list of software available in computer lab.



Month.	No. of Days	No.of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical / Projects
AUGUST	22	10T+05P	15 MARKS	<b>Unit 2: Cyber-safety</b> <ul style="list-style-type: none"> <li>Safely browsing the web and using social networks: identity protection, proper usage of passwords, privacy, confidentiality of information, cyber stalking, reporting cybercrimes</li> <li>Malware: Viruses, adware</li> </ul>	Identifying types of networks and connecting to internet Browser settings for a secure connection
<b>PWT-02/ UT- 02 (08-10 AUG 2024)</b>					
SEPTEMBER	15	05T+10P	15 MARKS	<b>Unit 3: Office tools</b> <ul style="list-style-type: none"> <li>Introduction to a word processor: create and save a document.</li> <li>Edit and format text: text style (B, I, U), font type, font size, text colour, alignment of text. Format paragraphs with line and/or paragraph spacing. Add headers and footers, numbering pages, grammar and spell check utilities, subscript and superscript, insert symbols, use print preview, and print a document.</li> </ul>	Word processing: create a text document  Create a text document in an Indian language other than English
<b>MID TERM (23 SEPT TO 04 OCT 2024)</b>					
OCTOBER	22	05T+10P	<u>continue</u>	<b>Unit 3: Office tools (CONTIUNED.....)</b> <ul style="list-style-type: none"> <li>Insert pictures, change the page setting, add bullets and numbering, borders and shading, and insert tables – insert/delete rows and columns, merge and split cells.</li> <li>Use auto-format, track changes, review comments, use of drawing tools, shapes and mathematical symbols.</li> </ul>	<ul style="list-style-type: none"> <li>Check spelling and grammar and apply the changes to the document.</li> <li>Demonstrate to use Synonyms and</li> <li>Thesaurus.</li> <li>Create a letter</li> <li>Create a report</li> <li>Create a greeting card.</li> <li>Create a poster</li> </ul>

Month.	No. of Days	No.of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical / Projects
NOVEMBER	26	05T+10P	continue	<b>Unit 3: Office tools (CONTIUNED.....)</b> <ul style="list-style-type: none"> <li>• Presentation tool: understand the concept of slide shows, basic elements of a slide, different types of slide layouts, create and save a presentation, and learn about the different views of a slide set – normal view, slide sorter view and handouts.</li> <li>• Edit and format a slide: add titles, subtitles, text, background, and watermark, headers and footers, and slide numbers.</li> </ul>	<ul style="list-style-type: none"> <li>• Create a presentation.</li> <li>• Create a presentation with animation.</li> </ul>
DECEMBER	20	05T+10P	<u>continue</u>	<b>Unit 3: Office tools (CONTIUNED.....)</b> <ul style="list-style-type: none"> <li>• Insert pictures from files, create animations, add sound effects, and rehearse timings.</li> <li>• Spreadsheets: concept of a worksheet and a workbook, create and save a worksheet.</li> <li>• Working with a spreadsheet: enter numbers, text, date/time, series using auto fill; edit and format a worksheet including changing the colour, size, font, alignment of text; insert and delete cells, rows and columns. Enter a formula using the operators (+,-,*, /), refer to cells, and print a worksheet.</li> </ul>	<ul style="list-style-type: none"> <li>• Include existing images/ pictures in a presentation.</li> <li>• Animate pictures and text with sound effects in a presentation</li> </ul>
<b>PWT-03/ UT -3 (12-14 DEC 2024)</b>					
JANUARY	14	10P	<u>continue</u>	<b>Unit 3: Office tools (CONTIUNED.....)</b> <ul style="list-style-type: none"> <li>• Use simple statistical functions: SUM (), AVERAGE (), MAX (), MIN (), IF () (without compound statements); embed charts of various types: line, pie, scatter, bar and area in a worksheet.</li> </ul>	Create different types of charts using a spreadsheet: line, bar, area and pie.

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

Month.	No. of Days	No.of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical / Projects
FEBRUARY	20	10P		<b>Lab Exercises</b> <ul style="list-style-type: none"> <li>• Browser settings for a secure connection</li> <li>• Working with the operating system: Navigation of the file system using a mouse and keyboard.</li> <li>• Word processing: create a text document; create a letter, report, and greeting card.</li> <li>• Create a text document with figures in it. It should describe a concept taught in another course.</li> <li>• Discuss the following in a text document about the basic organisation of a computer: CPU, memory, input/output devices, hard disk.</li> <li>• Create a text document in an Indian language other than English.</li> <li>• Create a presentation.</li> <li>• Create a presentation with animation.</li> <li>• Include existing images/ pictures in a presentation.</li> <li>• Animate pictures and text with sound effects in a presentation</li> <li>• Create a simple spreadsheet and perform the following operations: min, max, sum, and average.</li> <li>• Create different types of charts using a spreadsheet: line, bar, area and pie.</li> </ul>	
<b>PWT-04/UT-4 (06-08 FEB 2025)</b>					
MARCH	REVISION				
<b>TERM-END EXAM (17-28 MARCH 2025)</b>					

**NAVODAYA VIDYALAYASAMITI**  
**CLASS – IX                      SUBJECT: PHYSICAL EDUCATION**

**Standing and Standard Instructions:**

1. Morning Jogging/Warm Up Exercises/Mass Drills/Aerobics/Yoga and Meditation
2. Khelo India Fitness Assessment tests should be conducted at the Beginning and End of the Year.
3. Inter House Competitions as per Vidyalaya Calendar of Activities
4. Holding Periodical Cross-Country Race/Walk.
5. Trekking and Hiking Activities at least once in year
6. Showing Live Matches to Children
7. Martial Arts/Self Defence Skills through Resource Persons
8. Fit India Movement activity should be conducted as per schedule
9. Special day must be celebrated i.e., Yoga Day, National Sport Day
10. ICT to be a part of the pedagogy to make learning enjoyable and joyful

MONTH	NO. OF DAY	NO OF PDS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed
			Morning (45 Minutes)	Evening (90 Minutes)	Topics And Sub-Topics	
APRIL 2024	25	04	Jogging & Warming up, Circuit training to be increased progressively, Yogasana: Surya namaskar, Tadasana, Vrikshasana, Trikonasana, Padhahasthasana & Ardha Chakrasana	Practice of basic skills of Basketball, cricket (Bowling & Batting). Jumps & Throws and related exercise. Battery Test to analyze the ability of the students	Meaning and concept of Physical Education Aims and objectives of Physical Education. Development of physical, mental, social, emotional and Neuro-muscular coordination.	Science: Area & Dimension Activity Name: Layout of a Court

<b>JULY 2024</b>	<b>26</b>	<b>04</b>	Jogging & Ply metric exercise: Training to develop strength. Asanas of lying position: Uthanapadhasana, Ardhalasana, Ardhashalbhasana, Bhujangasana, Dhanurasana.	Selection of students for appropriate sports and games based on the battery test analyses. Handball, Volleyball, Athletics. Basic skills of jumps, throws and track events.	Components of physical fitness: Speed, Strength, Endurance, Flexibility, Balance & Co-ordination. Development of physical fitness through sports and games	Science: Motion: Linear, circular and accelerated motion. Activity Name: Components of fitness
<b>ASSESSMENT OF COMPONENTS OF FITNESS</b>						
<b>AUGUST 2024</b>	<b>25</b>	<b>04</b>	Jogging & General Warming-up. Interval training for speed and endurance. Practice of March past. Suryanamaskar. Yogasana: sitting position: Paschimottanasana, Ardhapadmasana, Padmasana, Vajrasana, Vakrasana, Ushtrasana, Gomukhasana, Shashankasana.	Assessment of components of fitness. Practice of improved skills in the selected game. Practice of different skills of jumps and throws. Practice of different skills combat games	1. Meaning and concepts of physical fitness. 2. Benefits of interval training and circuit training	Meaning and concept of First aid measures. Introduction to general sports injuries to soft tissues, bones and joints.
<b>SEPTEMBER 2024</b>	<b>22</b>	<b>03</b>	General conditioning exercises: Mobility, Stretching, etc. Yogasana: Halasana, Sarvangasana, Supta Vajrasana Kapalbathi, Anuloma Viloma Pranayama & Brahmari pranayama.	Practice of improvised skills of Football and Handball. Practice of Relay races Baton exchange and Hurdling.	Rules and regulations of team games like hand ball football	Meaning and importance of Yoga Meditation in day-to-day life. Stress and its management.
<b>TERM - 1</b>						
<b>OCTOBER 2024</b>	<b>24</b>	<b>04</b>	Jogging and warming-up. Proprioceptive training exercises to develop neuromuscular coordination. Practice of different Asanas and Pranayama.	Lead-up activities for speed Development. Game situation of Kho-Kho and Kabaddi.	Pace setting activities Role of sports in creating fit and healthy citizens.	Science: Force and Laws of motion Activity name: Kho-Kho

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

<b>NOV 2024</b>	<b>19</b>	<b>03</b>	Jogging and warming-up. Proprioceptive training exercises to develop neuromuscular coordination.	Development of games like martial arts	Development of physical, mental, social, emotional and Neuro-muscular coordination.	Stretching exercises
<b>DECEMBER 2024</b>	<b>22</b>	<b>04</b>	Rhythmic Activities: Lazium, Hula hoops, Aerobic Dance, Zumba Dance, etc. Yogasana: Ardha Halasana, Halasana, Sarvangasana, Shavasana, etc.	Assessment of skills in kho kho Practice of different track and field events for Annual Sports day.	Brief discussion on Kho kho ground measurement and rules and regulations	Postural Deformities and its corrective exercise: Kyphosis, Lordosis and Scoliosis. Knock- knee, Bow leg and flatFoot
<b>JAN 2025</b>	<b>13</b>	<b>02</b>	Jogging and warming up. Crossfit training for comprehensive development. Suryanamaskar	Practice of March Past and Mass Drills.	1. Benefits of Physical training	Make a project on different types of training
<b>FEBRUARY 2025</b>	<b>23</b>	<b>03</b>	Jogging and warming up. Crossfit training for comprehensive development. Different types of walking: Toe Walk, Heel Walk, Duck Walk, Crab Walk, etc.	Practice/friendly matches. Athletics: Improvised techniques for start and finish.	Nutrition & Diet: Micro & Macro Nutrients. Sports Nutrition and Balanced Diet.	Children asked to run 100 meters and jump for 5 minutes.
<b>TERM - 2 EXAM</b>						

**NAVODAYA VIDYALAYA SAMITI**

**CLASS:IXSUBJECT:ART(VISUAL)**

MONTH	NO.OFDAYS	NO.OFPERIODS	Main-Topics and Sub -Topics to be Covered	Medium/ Materials	Projects/Art Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ PracticalHands OnActivities Prescribed
APRIL-2024	24	4	<b>ContemporaryIndianArt</b> Contemporary trends in Painting, sculpture,drawing,digitalart, video art, installation art, land art etc.	Wood, stone, Plastic other available materialsinthe Vidyalaya	Installation projectsmayhave done. It can be integrate with Maths, Science subjects.	Based onthe activityitmaybe a project/ art Installationetc.
JULY-2024	26	4	<b>VideoFilmmaking</b> Preparationofscriptformaking videoonEkBharatShrest BharatpairingState. Videography/Cinematography Framing, Lighting, Zooming, Focus,Whitebalance,Audio, B-roll.	Video Camera/Smart Phone,Tripod	Projects may integratewith SocialStudies, History, and Language.	
AUGUST-2024	25	4	<b>Video Editing /Film Making (making video on Ek Bharath ShrestBharathpairingState)</b> Learn the Software, Logging, First Assembly, Rough Cut, Fine Cut, Final Cut	Computer with video &audio editingsoftware (Movie maker, audacity)/Smart Phone	Projectsmay integrate with Social Studies andLanguage preferably integrate with otherSubject	Groupworkcan be assigned. Studentscan prepareScript, do shooting, editing etc.
SEPTEMBER-2024	17	3	<b>Landscape design (Landscape architecture),Gardening</b> Planning,designingand managingofopenspacesinthe Vidyalaya. 1. UnityandBalance 2. LinesandPaths 3. FocalPoints 4. Transitions Power point presentation may be prepared.	Stone, Cement, Wood, Waste Plasticsandother materials available in the campus.	Group activity of Campus beautification Projectsmay have done.Theproject may integrate with Mathematics, Science, Social Studies and Language Subject. Can be collaborate with thepairingState.	

**23 SEPTEMBER- 4October2024Term-1**

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

MONTH	NO.OFDAYS	NO.OFPERIODS	Main-Topics and Sub -Topics to be Covered	Medium/ Materials	Projects/Art Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ PracticalHands OnActivities Prescribed
October 2024	18	3	<b>Still Life Painting-</b> Study from the paintings of masters like <i>Pieter Claesz, Caravaggio, Paul Cezanne, Vincent van Gogh etc.</i> Form, Colour, Texture, Proportion, Light and Shade and Composition.	Pencil, Water Colour, Acrylic Colour	Arrange 4 or 5 different objects by giving appropriate lighting and draw. Prepare one final still life painting. ICT tools may be used.	Learn the different texture character, colour and form of different objects. Understand light and shade
NOVEMBER- 2024	20	4	<b>Architecture</b> History Indian Architecture Indus Valley civilization Hindu Temple Architecture Ajanta, Ellora, Elephanta Indo Islamic Architecture Architecture of the EBSB pairing State. Learn the software Google Sketch up	Pencil/ Google Sketch up software	Group projects may be given. It can be integrated with Mathematics, Science, Social Studies and Language Subjects.	
DECEMBER- 2024	20	3	<b>Traditional Art of own State and EBSB pairing State</b> History Tradition, Design, Drawing, Colour scheme, Materials used etc.	Pencil/ Watercolor/ Poster Colour	One work of own state and one of the pairing State may have done. Projects may integrate with Social Studies, History and Language Subjects. ICT based Art Pedagogy can be used	
JANUARY- 2025	14	2	<b>Folk Arts/Festivals of India</b> Study the local folk Art of the region. (EBSB pairing state art forms can be selected guidelines	Various organic mediums, crafts, and techniques used for creating traditional arts and local crafts. Local materials	Projects may integrate with EBSB pairing state art forms can be selected guidelines are given in (Ek	One best art work can be Submit along with Art Portfolio based on Pared state Folk/ Traditional art and various Art



MONTH	NO.OFDAYS	NO.OFPERIODS	Main-Topics and Sub -Topics to be Covered	Medium/ Materials	Projects/Art Integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ PracticalHands OnActivities Prescribed
			are given in (Ek bharathSrestbharat)  Various festivals i.e. Bihu, Pongal, Uttrayan, Makar Sankranti and others. These festivals have their own ways of traditional learning opportunities.	wood blocks, threads, jute bags, soft stone, pop can be used	bharathSrestbharat)  IndigenousToys, Storytelling&Illustrationssubject story,poemsetc. activity can be framed based on Art Integrated Pedagogy	achievements of the Individual with documentary evident. An A3 Size; Drawing book can be used for the Same
FEBRUARY -2025	24	4	<b>Layout Design (Preparation of Portfolio)</b> Learn the software, Lines, Shapes, Colours <b>Applied Art: Vector Graphic Editing &amp; Designing</b> Introduction to computer graphics and different applications. Basic knowledge of computer graphics and Typography. Learn Calligraphy in Hindi/English and Local Language.	Computer with software's like MS Word, Powerpoint, Indesign etc.	Preparation of Portfolio. Projects may integrate with Social Science, and Language Subjects.	
MARCH 2025			<b>Term-2</b>			

ist of Ek Bharat Shrest Bharat paired states for Art Integrated project (For Class IX & X) is given below. The project can be well planned in beginning of the academic year and executed in a Time bond manner with the team work of Subject teacher, Art Teacher & Students. Students research based topics other than the subject area.

NAVODAYA VIDYALAYA SAMITI

CLASS: IX

SUBJECT: MUSIC

- Students learn about primary concepts of Music and also learn to correlate it with science and other subjects.
- Students learn Songs in different languages for inculcation of National Integrity as well as explore diversities and develop respect towards different cultures.
- Students explore Local Folk Culture
- Vision of the students is broadened so that the little minds will get a chance to think beyond the barriers of so called subject boundaries and learn the concept with a broader vision.
- Students are exposed to the integration of latest technology in music.

Month	Days	Period	Main- Topics and Sub- Topics to be Covered	Projects/Art (Performing) Integrated Pedagogy-Activities Prescribed	Assessment Tool(s)/ Practical Activities Prescribed (Vocal/ Instrumental)
APRIL 2024	24	04	1. Thaata and types of swara's 2. Community song Telugu	<p>SUGGESTED ACTIVITIES</p> <ul style="list-style-type: none"> <li>• Word by word recitation of the song by teacher followed by students</li> <li>• Discussion meaning of the song.</li> <li>• Recitation of tune by teacher followed by students.</li> </ul> <p><b>(Interdisciplinary Approach)</b></p> <ul style="list-style-type: none"> <li>• Language &amp; Literature:</li> <li>• Students get exposed to another language and literature.</li> </ul> <p>Social Science Students get exposed to the art &amp; Culture of Andhra and Telangana.</p>	<ul style="list-style-type: none"> <li>• Vocal Performance / Instrumental Performance (Perfection of pitch, tempo and in proper rhythm).</li> <li>• Project Work – A. Students are asked to prepare charts containing brief information about population, education ratio, festivals, crops, water reservoirs, historical monuments, freedom fighters etc. of Andhra and Telangana</li> </ul>
JULY 2024	26	02	2. Theory: Musical Instruments and Classification- string, wind and Percussion	<ul style="list-style-type: none"> <li>• Discussion about the classification of Musical instruments.</li> </ul> <p><b>(Interdisciplinary Approach)</b></p> <p>X) Physics Students are exposed to the scientific area of the sound production on different music Instruments and its tonal variations, pitch, timbre etc.</p> <p>XI) History Students explore the historical reference of musical instruments and will be able to understand the origin and evolution of the</p>	<ul style="list-style-type: none"> <li>• Question–Answer</li> <li>• Project work – prepare a presentation of musical instruments as per their category.</li> </ul> <p>Students are asked to identify some musical instruments by playing audio</p>

Month	Days	Period	Main- Topics and Sub- Topic to be Covered	Projects/Art (Performing) Integrated Pedagogy-Activities Prescribed	Assessment Tool(s)/ Practical Activities Prescribed (Vocal/ Instrumental)
				same.	files.
		02	3. Introduction to orchestration of a song.	<ul style="list-style-type: none"> <li>• Discussion about the construction of light songs</li> <li>• Discussion on the use of musical instruments in the orchestration</li> <li>• Discussion about the aesthetic value of a musical composition.</li> </ul> <p><b>(Interdisciplinary Approach)</b> Science:</p> <ul style="list-style-type: none"> <li>• Students get exposed to the area of sound and emotion</li> <li>• Students are exposed to the world of latest musical trends and digital music production.</li> </ul>	<p>xvii) By using digital resources on internet.</p> <p>xviii) Project Work – Students are asked to identify the musical instruments which use in songs</p> <p>xix) Students are asked to create an orchestration for simple songs with available resources in the Vidyalaya.</p>
AUGUST 2024	25	04	4. Introduction to the Raga system of Carnatic Music OR Hindustani music	<ul style="list-style-type: none"> <li>• Discussion about raga system Melakartha Ragas/ Equivalent Hindustani system</li> </ul> <p><b>(Interdisciplinary Approach)</b></p> <ul style="list-style-type: none"> <li>• Language &amp; Literature: Students learn about the ancient reference about raga and rasa.</li> <li>• Art &amp; Culture: Students get exposed to the rich cultural and systematic Approach of the ancestors towards the Development to art.</li> </ul>	With the use of digital Resources Student are Asked to prepare a list of Popular ragas

Month	Days	Period	Main- Topics and Sub- Topics to be Covered	Projects/Art (Performing) Integrated Pedagogy-Activities Prescribed	Assessment Tool(s)/ Practical Activities Prescribed (Vocal/ Instrumental)
SEPTEMBER 2024	17	01	5. Patriotic song in Hindi	<ul style="list-style-type: none"> <li>Word to word recitation of the song by teacher followed by students.</li> <li>Recitation of the song by teacher followed by students (Interdisciplinary Approach)</li> <li>Prepare a chart / ppt depicting geographical diversity of India</li> <li>Prepare a chart of arousal of different Civilizations</li> </ul> <p>Brief discussion about the classical music System in India Discussion about differences in the singing Style and use of musical instruments in the systems.</p>	<p>Vocal Performance/ Instrumental Performance (Perfect on of pitch, tempo and in proper rhythm).</p> <p>xvii) Question–Answer about the systems of music in India</p> <p>xviii) Preparation of a chart of major significance of these systems.</p> <p>Preparation of chart on Great musicians of the systems.</p>
		02	6. Theory: Brief Introduction to the classical music Systems of India	<p><b>(Interdisciplinary Approach)</b></p> <ul style="list-style-type: none"> <li>Social: Students get exposed to the History of Indian music, culture and its Development through the influence of</li> <li>Foreign powers.</li> </ul>	
<b>23 SEPTEMBER - 4 OCTOBER 2024 TERM - I EXAM</b>					
OCTOBER 2024	18	02	7. Community Song in regional language.	<ul style="list-style-type: none"> <li>Discussion about lyrics and its meaning.</li> <li>Word by word recitation by teacher followed by student.</li> <li>Recitation of tune by teacher followed by students (Interdisciplinary Approach)</li> </ul> <p>Civics: 11. Students are exposed to the values of unity in diversity. Students are given an idea about values of Secularism in our Constitution.</p>	<p>13. Vocal/ Instrumental performance</p> <p>14. Question–Answer about Values of Secularism as contemplated in constitution of India.</p>
		01	8. Theory: Comparative study of Indian and western music	<p>8. Discussion about the systems and their demonstration using digital resources.</p> <p>9. Discussion about the structure and style of performance.</p> <p>10. Discussion about the development in these art forms.</p>	<p>Question–Answer About the music systems</p> <ul style="list-style-type: none"> <li>Vocal / Instrumental performance</li> </ul> <p>Students are asked to prepare a chart on fundamental elements of both systems</p>

Month	Days	Period	Main- Topics and Sub- Topicstobe Covered	Projects/Art (Performing) Integrated Pedagogy-Activities Prescribed	Assessment Tool(s)/ Practical Activities Prescribed (Vocal/ Instrumental)
				<ul style="list-style-type: none"> <li>Comparative study of the notation system and use of technology.</li> </ul>	
NOVEMBER2024	20	01	9.Life history of Thygarajaswamikal / Amir Khusru/Swati Thirunal.	9. Discuss about the life and Contributions of Thygarajaswamikal/Amir Khusru/Swati Thirunal <b>(Interdisciplinary Approach)</b> Social Science Students explore the history of India and Social life of pre independent era.	Question–Answer about contributions of these personalities. Project work-to prepare a list of major contributions of these personalities given to the field of music.
		01	10.Life History of Beethoven  Introduction of Indian classical dance	8. Discuss about the life and contribution of the personality. 9. Discuss about the development of art form during his/her period <b>(Interdisciplinary Approach)</b> Art& Literature: Students explore the history of western music, culture and contributions to the world of music.	9. Question–Answer about theoretical aspects of Raga 10. Vocal/ Instrumental performance Ability to recognize Raga from phrases of swarasduring vivatetest (Practical Exam)
		01	11.Outline knowledge of raga Mohanam OrBhupali	7. Discussion about structure of Raga and notes used in it. 2. A small bandish (Composition) in Raga Listening different types of famous Bhajans and light music song to make the concept clearer.	6. Question–Answer about theoretical aspects of Raga 7. Vocal/ Instrumental performance e) Ability to recognize Raga from phrases of swaras
		01	12.Outline knowledge of raga Hamsadwani Or darbari	4. Discussion about structure of Raga and notes used in it. iv) A small bandish (Composition) in Raga Listening different types of famous Bhajans and light music song to make the concept clearer.	10. Question–Answer about the oretical aspects of Raga 11. Vocal/ Instrumental performance <ul style="list-style-type: none"> <li>Ability to recognize Raga from phrases of swaras .</li> </ul>

Month	Days	Period	Main- Topics and Sub- Topics to be Covered	Projects/Art (Performing) Integrated Pedagogy-Activities Prescribed	Assessment Tool(s)/ Practical Activities Prescribed (Vocal/ Instrumental)
DECEMBER 2024	20	03	13. Introduction of online music composing software	<p>8. Discussion about music sequencer</p> <p>9. Demonstration using free online software for the purpose. Eg: <a href="https://onlinesequencer.net/">https://onlinesequencer.net/</a></p> <p>10. Discussion about the latest technology in the field of music.</p> <p><b>(Interdisciplinary Approach)</b> ICT</p> <p>Students get exposed to the field where computers play vital role in making music. Students explore the capabilities of programming in computer</p>	<p>8. Students get a chance to personally experience the tool in computer lab or smart class.</p> <p>Students are asked to compose simple music loops with the help of free softwares.</p>
JANUARY 2025	14	02	14. Introduction of audio editing software	<p>9. Demonstration of free audio editing software using online video resources.</p> <p>10. Demonstration of recording &amp; editing of sound file using free online software Eg: <a href="https://editor.audio/en/">https://editor.audio/en/</a></p> <p><b>(Interdisciplinary Approach)</b> ICT:</p> <p>Students explore the new digital technology in recording, editing and manipulating of audio files which is useful for academic and other co - curricular activities.</p>	<p>16. Students are shown videos of audio recording studio session or demo videos of different audio editing softwares.</p> <p>17. Students may be given a chance to do the sound editing in computer lab or smart class.</p> <p>18. Students may be asked to do a presentation on digital music production platforms.</p>
FEBRUARY 2025	24	04	<b>REVISION OF ALL THE TOPICS &amp; PRACTICAL EXAMS (VOCAL / INSTRUMENTAL)</b>		

Month	Days	Period	Main- Topicsand Sub- Topicstobe Covered	Projects/Art (Performing) Integrated Pedagogy-Activities Prescribed	Assessment Tool(s)/ Practical Activities Prescribed (Vocal/ Instrumental)
MARCH 2025	12		<b>TERM-2</b>		

8. As per NEP 2020 Art Integrated Learning (AIL) is a teaching-learning process which is based on learning 'through the arts' and 'with the arts'. One of the core principles guiding the education system, according to the policy, would be the extensive use of technology in teaching and learning. In order to maximize the usage of ICT, a well-equipped Music Room with computer, Internet connection, required instruments, software and other facilities are to be ensured.
9. Two workshops on music (Vocal/Instrumental) may be conducted with the help of professional artists to enable children to perform on the stage.
10. Weekly coaching classes may be conducted (vocal / instrumental) with the help of professionals in the respective field by using VN

**SPLIT UP OF SYLLABUS  
CLASS X**



**NAVODAYA VIDYALAYA SAMITI**

**CLASS: X**

**SUBJECT: ENGLISH**

Unit no	Name of the Chapter / Unit	Marks
Reading Comprehension	Conceptual understanding, decoding, analyzing, inferring, interpreting and vocabulary	20
Writing Skill & Grammar	Creative expression of an opinion ,reasoning, justifying ,illustrating, appropriacy of style and tone ,using appropriate format and fluency ,applying conventions ,using integrated structures with accuracy and fluency	20
Language Through Literature	Recalling, reasoning, appreciating, applying literary conventions, illustrating and justifying etc .Extract relevant information ,identifying the central theme and sub-theme ,understanding the writer's message and writing fluently.	40
<b>Total</b>		<b>80</b>
Internal Assessment		20
<b>Grand Total</b>		<b>100</b>

Month	No. of Days	No .of Periods	Lesson/Unit	Activities/ Projects/ Practical Experiments to be held/ Specific Assessments Tool(S) (Suggested)
April 2024	21	21	<b>First Flight (Main Text Book)</b>	
			Chapter1:A Letter To God (Prose) By G.L. Fuentes	Field Trip/Visit: Visit a Post office in your locality and collect information on different job opportunities at India Post/various services offered by Indian Postal department.
			Poem1:Dust Of Snow By Robert Frost	
			Poem2:Fire and Ice By Robert Frost	Role play: Role play based on the lesson 'A Letter To God' /A day in Post Office

Month	No. of Days	No .of Periods	Lesson/Unit	Activities/ Projects/ Practical Experiments to be held/ Specific Assessments Tool(S) (Suggested)
			Chapter2:Nelson Mandela: Long Walk To Freedom By Nelson Mandela	Debate/discussion/portfolio Assignment: 1) Apartheid/ Untouchability /other discrimination and Colonialism. 2)Indian Renaissance Leaders and their contribution 3) Indian Constitution and Judicial System-A shield against discrimination. Field Trip /Visit :Visiting a nearby Zoo.
				Debate/ Discussion /Portfolio Assignment: Animals in Captivity (For Zoo: Roles of Zoo-conservation,research, education and recreation/ Against Zoo :Minimal freedom for animals-boredom ,stress and confinement for Animals etc.)
			<b>Foot prints Without Feet (Supplementary Reader)</b>	
			Chapter1:ATriumph Of Surgery By James Herriot	Multidisciplinary Teaching Style: Balanced Diet and Need for Games, Sports and Workouts(Science Teachers /Staff Nurse/Physical Education teachers)
			<b>Reading Comprehension ,Writing&amp;Grammar</b>	
			Grammar: Tenses (Bridge Course) Writing :Informal& Formal Letter Writing (situation based) Reading Comprehension :Discursive & Case Based Passages With Visual Input	Subject- verbs concord Modals Determiners
July 2024	26	26	<b>Foot prints Without Feet (Supplementary Reader)</b>	
			Chapter 2:TheThief's Story By Ruskin Bond	Role play: Role play based on the lesson'The Thief's Story'/'The Midnight Visitor'.
			Chapter 3:The Midnight Visitor By Robert Arthur	Just A Minute (JAM) Activity :A usable shows great presence of mind or ability to think quickly and act wisely in a situation of danger .Give examples of such an event from your own Experience.
<b>First Flight (Main Text Book)</b>				

Month	No. of Days	No .of Periods	Lesson/Unit	Activities/ Projects/ Practical Experiments to be held/ Specific Assessments Tool(S) (Suggested)		
			Chapter3:TwoStoriesAbout Flying His First Flight By Liam O’Flaherty Black Aeroplane By Frederick Forsyth	Portfolio Assignment: Collect stories about through famous personalities were motivated by their parents /teachers / role models. (Eg. Swami Vivekananda by Sri Ramakrishna Paramahamsa, Sachin Tendulkar by Ramakant Achrekare etc.)		
			Poem4:HowToTell Wild Animals By Carolyn Wells	Editing		
			Poem 5:The Ball Poem By John Berryman	Portfolio Assignment: Write about precious thing you lost and how did you overcome that situation.		
			<b>PERIODIC WRITTEN TESTI-26 APRIL 2024 to 29APRIL 2024</b>			
			<b>First Flight (Main Text Book)</b>			
			Chapter4: From The Diary of Anne Frank By Anne Frank	Portfolio Assignment /Collage:The Holocaust		
			<b>Reading Comprehension ,Writing&amp; Grammar</b>			
			Grammar :Tenses ,Reported Speech Writing: Analytical Paragraph Writing Reading Comprehension: Discursive & Case Based with Visual Input	Commands and requests Statements Questions		
			Poem6:Amanda! By Robin Klein	Portfolio Assignment: From your Understandings of the poem ‘Chivvy (Class7)’compare the poem with 'Amanda!' and prepare a write up.		
			August 2024	22	22	<b>Foot prints Without Feet (Supplementary Reader)</b>
Chapter4:AQuestionOfTrust By Victor Canning	StoryTellingPedagogy:Presentthestory'AQuestionOfTrust' /'FootprintsWithout Feet' before the class.					
Chapter5:FootprintsWithout Feet By H .G .Wells						

Month	No. of Days	No .of Periods	Lesson/Unit	Activities/ Projects/ Practical Experiments to be held/ Specific Assessments Tool(S) (Suggested)
			Analytical Paragraph writing on given map, chart, graph etc	
			<b>PERIODICWRITTENTESTII-08 AUGUST2024 to 10 AUGUST2024</b>	
			<b>Reading Comprehension ,Writing&amp; Grammar</b>	
			Grammar: Subject-Verb Concord, Reported Speech ,Modals Writing :Notice Writing Reading Comprehension: Discursive &Case Based With Visual Input	CCT based practice Transformation of Sentences
September-2024	17	17	<b>First Flight (Main Text Book)</b>	
			Chapter7:Glimpses Of India I. A Baker From Goa By Lucio Rodrigues II.Coorg By Lokesh Abrol III.TeaFrom Assam By Arup Kumar Dutta	Portfolio Assignment: Collect information/ Pictures and write about any three unique and important monuments /tourist places/ festivals of India and one local monument/ tourist place /festival.  Field Trip/Visit: Prepare an Itinerary of your visit to a heritage site of India you visited as a part of Field Trip /Family Tour.
			Poem8:TheTrees By Adrienne Rich	Poster Making: Make a poster, creating awareness on the importance of Trees/ Environment in association with Special Day Celebration like Earth Day, Sadbhavana Divas, International Wetlands Day.
			Chapter8:MijbilTheOtter ByGavinMaxwell	
			Poem9:Fog ByCarlSandburg	Art Integration :Draw /paint a beautiful natural scenery.
			<b>Foot prints Without Feet (Supplementary Reader)</b>	
Chapter6: The Making Of A Scientist By Robert W .Peterson	Inspire Manak: Prepare a report for presenting ideas/ innovations for Inspire Manak2023-24.			

Month	No. of Days	No .of Periods	Lesson/Unit	Activities/ Projects/ Practical Experiments to be held/ Specific Assessments Tool(S) (Suggested)
			Chapter7:TheNecklace By Guyde Maupassant	Role play: Role play based on the lesson 'The Necklace'.
			<b>Reading Comprehension ,Writing&amp; Grammar</b>	
			Grammar: Finites &Non-Finites, Reported Speech Writing: Article Writing Reading Comprehension: Discursive & Case Based (With Visual Input)	
<b>FIRST TERM EXAM- 23 (SEPTEMBER 2024 to 4OCTOBER2024)</b>				
<b>October-2024</b>	17	19	<b>First Flight (Main Text Book)</b>	
			Chapter9 :Madam Rides The Bus By Vallik kannan	A Bus/Train Ride: Write the experience/feelings about Bus/Train Ride you Experienced recently.
			Poem10:TheTale of Custard the Dragon by Ogden Nash	Art Integration :Make a comic book on the ballad' The Tale Of Custard The Dragon'.
			Chapter10:The Sermon At Benares	Story Telling Pedagogy :Present the story 'The Sermon At Benares' before the class.
			Poem11:ForAnne Gregory By William Butler Yeats	JAM(Just A Minute) Speech :Speech on the topic' Beauty is only skindeep' or 'Don't Judge a book by its cover'
<b>November-2024</b>	20	20	<b>FOOT PRINTS WITHOUT FEET (SUPPLEMENTARY READER )</b>	
			Chapter 9:Bholi By K. A . Abbas	Power Point Presentation :Problems face by women in India and measures for Women Empowerment.
			Chapter10:The Book That Saved The	JAM (Just A Minute) Speech: You noticed your younger brother mimicking his friend (who is disabled) and makes fun of him. Is it justifiable on his part to do such act. If not why?
			Chapter10:The Book That Saved The	Role play: Role play based on the lesson 'The Book That Saved The Earth'.

Month	No. of Days	No .of Periods	Lesson/Unit	Activities/ Projects/ Practical Experiments to be held/ Specific Assessments Tool(S) (Suggested)
			Earth by Claire Boiko	Art Integration: Make a comic book on the play' The Book That Saved The Earth'.
				Art Integration: Drawing/ Painting / Clay modeling-of the alien/alien invasion based on the chapter' The Book That Saved The Earth'.
			<b>First Flight (Main Text Book)</b>	
			Chapter11:TheProposal By Anton Chekov	Role-play: Role-play based on the lesson 'The Proposal'.
			<b>Reading Comprehension, Writing &amp; Grammar</b>	
			Grammar : Active Voice & Passive Voice, Edition/Error Correction	
Writing: Article Writing & Speech Writing Reading Comprehension: Discursive& Case Based(With Visual Input)				
<b>December 2024/ January-2025</b>	18 + 14	18 + 14	Pre Board- I 04-14 December 2024 Pre Board – II 20-30 January 2025 Revision Of Lessons, Remedial Teaching, Strategies for Improvement Of Class Average	

**Note:**

- Relevant unit from work book may be taken up.
- Internal Assessment as per CBSE guidelines.
- Refer CBSE Teacher's Manual for Pre-reading and Post- reading activities.

नवोदयविद्यालयसमिति

कक्षा- 10विषय-हिंदी' अ

- सम्पूर्ण प्रश्न पत्र दो खंडों 'अ' और 'ब' में विभाजित होगा |
- खंड 'अ' में 49 वस्तुपरक प्रश्न पूछे जाएंगे, जिनमें से 40 प्रश्न करने अनिवार्य हैं |
- खंड 'ब' में वर्णनात्मक प्रश्न पूछे जाएंगे |
- प्रश्नों में उचित आंतरिक विकल्प दिए जाएंगे|

अवधि- 3 घंटे

पूर्णांक- 80

वार्षिक परीक्षा हेतु अंक भार विभाजन				
खंड 'अ'				
क्रम संख्या	विषयवस्तु		उपभार	कुल भार
1.		अपठितांश		10
	क	1. अपठित गद्यांश] विकल्प रहित [पाँच बहुविकल्पीय प्रश्न	5	
	ख	2. अपठित काव्यांश [विकल्प सहित] पाँच बहुविकल्पीय प्रश्न	5	
2.	व्याकरण के लिए निर्धारित विषयों पर विषयवस्तु का बोध,भाषिक बिन्दु संरचना आदि पर बहुविकल्पीय प्रश्न (कुल बीस में से कोई 16 प्रश्न)			16
	व्याकरण			
	1.	रचना के आधार पर वाक्य -भेद ( पाँच में से चार प्रश्न)	4	
	2.	वाच्य ) पाँच में से चार प्रश्न(	4	
	3.	पद -परिचय )पाँच में से चार प्रश्न(	4	
	4.	अलंकार -शब्दालंकार :श्लेष अर्थालंकार :उत्प्रेक्षा ,अतिशयोक्ति ,मानवीकरण )पाँच में से चार प्रश्न(	4	
3.		पाठ्यपुस्तक क्षितिज भाग-2		
	क	गद्य-खंड	7	
		1.क्षितिज से निर्धारित पाठों में से गद्यांश के आधार पर विषयवस्तु का शीर्षक चयन , ज्ञान,अवबोध और अभिव्यक्ति परक एक अंकीय पांच बहुविकल्पीय प्रश्न	5	14
		2. क्षितिज से निर्धारित गद्य पाठों के आधार पर विद्यार्थियों की उच्च चिंतन क्षमता एवं ज्ञानाभिव्यक्तिपरक एक अंकीय दो बहुविकल्पीय प्रश्न	2	

	ख	काव्य-खंड	7	
		1. क्षितिज से निर्धारित कविताओं में से काव्यांश के आधार पर एक अंकीय पांच बहुविकल्पीय प्रश्न	5	
		2.क्षितिज से निर्धारित कविताओं के आधार पर विद्यार्थियों का काव्य- बोध परखने हेतु एक अंकीय दो बहुविकल्पीय प्रश्न	2	
		खंड-ब) वर्णनात्मक प्रश्न(		
1.		पाठ्यपुस्तक क्षितिज भाग-2 एवं पूरक पाठ्यपुस्तक कृतिका भाग-2		
	क	गद्य-खंड		
		क्षितिज से निर्धारित पाठों में से विषयवस्तु का ज्ञान,अवबोध ,अभिव्यक्ति आदि परक तीन प्रश्न) विकल्प सहित (शब्द सीमा25 -30 ) 4 में से कोई 3 प्रश्न (	6	20
	ख	काव्य-खंड		
		क्षितिज से निर्धारित कविताओं के आधार पर विद्यार्थियों का काव्यबोध परखने हेतु तीन प्रश्न) विकल्प सहित (शब्द सीमा 25- 30 )4 में से कोई 3 प्रश्न(	6	
	ग	पूरक पाठ्यपुस्तक कृतिका भाग -2		
		कृतिका निर्धारित पाठों पर आधारित दो प्रश्न )विकल्प सहित (शब्द सीमा 50- 60शब्द )3 में से कोई 2 प्रश्न(	8	
2.		लेखन		
	क	विभिन्न विषयों और संदर्भ पर विद्यार्थियों के तर्कसंगत विचार प्रकट करने की क्षमता को परखने के लिए संकेत बिन्दु आधारित समसामयिक एवं व्यवहारिक जीवन से संबंधित विषय पर लगभग 120 शब्दों में एक अनुच्छेद )3 में से कोई(1	6	20
	ख	अभिव्यक्ति की क्षमता पर केन्द्रित औपचारिक एवं अनौपचारिक विषय पर लगभग 100 शब्दों में पत्र) विकल्प सहित) (5×1-5)	5	
	ग	उपलब्ध रिक्ति के लिए लगभग 80 शब्दों में स्ववृत्त लेखन अथवा	5	



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		विविध विषयों पर आधारित लगभग 100 शब्दों में औपचारिक ई-मेल लेखन।		
	घ	दिए गए विषय से संबंधित लगभग 60 शब्दों में विज्ञापन लेखन अथवा शुभकामना, पर्व, त्योहार एवं विशेष अवसर के अनुसार संदेश लेख	4	
		कुल अंक		80
		आंतरिक मूल्यांकन		20
	क	सामयिक आकलन	5	
	ख	पोर्टफोलियो	5	
	ग	बहुविध आकलन	5	
	घ	विषय समृद्धि क्रियाकलाप	5	
		कुल योग		100

माह	कार्य दिवस	कालांश	विषयवस्तु/ पाठ का नाम	परियोजना कार्य
अप्रैल 2024	24	24	क्षितिज भाग-2 सूरदास के पद-सूरदास) काव्य( नेताजी का चश्मा-स्वयं प्रकाश) निबंध( कृतिका भाग-2 माता का आंचल- शिवपूजन सहाय) कृतिका( व्याकरण- रचना के आधार पर वाक्य भेद) व्याकरण( अपठित गद्यांश	भक्तिकालीन कविताओं का संग्रह वाक्य- भेद का चार्ट बनाएं। अपने बचपन की कोई घटना का वर्णन
<b>आवधिक परीक्षा1-</b>				
जुलाई 2024	26	26	क्षितिज भाग-2 बालगोबिन भगत -रामवृक्षबेनीपुरी) संस्मरण( लखनवी अंदाज- यशपाल) व्यंग्य( *मानवीय करुणा की दिव्य चमक -सर्वेश्वर दयाल सक्सेना व्याकरण- अपठित काव्यांश औपचारिक व अनौपचारिक पत्र लेखन	
अगस्त 2024	25	25	क्षितिज भाग-2 राम- लक्ष्मण -परशुराम संवाद -तुलसीदास) काव्य( तुलसीदास की चौपाइयों का संग्रह एवं जीवन	

माह	कार्य दिवस	कालांश	विषयवस्तु/ पाठ का नाम	परियोजना कार्य
			*सवैया और कवित्त- देव * आत्मकथ्य- जयशंकर प्रसाद) काव्य( व्याकरण- वाच्य	परिचय वाच्य -भेद का वर्गीकरण चार्ट
<b>आवधिक परीक्षा-2</b>				
सितंबर 2024	17	17	क्षितिज भाग-2 उत्साह, अट नहीं रही है-सूर्यकान्त त्रिपाठी निराला) काव्य( यह दंतुरित मुस्कान -फसल नागार्जुन) काव्य( *छाया मत छूना मन -गिरिजा कुमार माथुर* कृतिका भाग-2 *जॉर्जपंचम की नाक-कमलेश्वर * स्ववृत्त लेखन औपचारिक ई-मेल लेखन	फसलों का वार्षिक विभाजन व उनकी उत्पादन प्रक्रिया का वर्णन
<b>प्रथम सत्रांत परीक्षा</b>				
अक्टूबर 2024	21	21	क्षितिज भाग-2 एक कहानी यह भी-मन्नूभण्डारी) आत्मकथा( *स्त्री शिक्षा के विरोधी कुतर्कों का खण्डन -महावीर प्रसाद द्विवेदी * कृतिका भाग-2 साना-साना हाथ जोडि-मधु कांकरिया) कृतिका( *कन्यादान -ऋतुराज * व्याकरण- पद-परिचय विज्ञापन	स्त्रियों की वर्तमान समाज में स्थिति 'इस विषय पर परिचर्चा आयोजन  विज्ञापन लेखन अभ्यास
नवंबर 2024	20	20	क्षितिज भाग-2 नौबत खाने में इबादत-यतीन्द्र मिश्र संस्कृति -भदन्त आनन्द कौसल्यायन) निबन्ध( में क्यों लिखता हूँ -अजेय) आत्मकथा( *एहीं ठैयां झुलनी हेरानी हो रामा-शिवप्रसाद मिश्र रुद्र ) *कृतिका( अलंकार शब्दालंकार) श्लेष(, अर्थालंकार) उत्प्रेक्षा, अतिशयोक्ति, मानवीकरण( संगतकार -मंगलेशडबराल) काव्य( पुनरावृत्ति	अपने वर्तमान व अतीत की घटनाओं को जोड़ते हुए भविष्य निर्मित लक्ष्यों पर परिचर्चा
दिसंबर 2024	20	20		

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माह	कार्य दिवस	कालांश	विषयवस्तु/ पाठ का नाम	परियोजना कार्य
प्री-बोर्ड- 1				
जनवरी 2025			पुनरावृत्ति विद्यार्थियों की आवश्यकतानुसार	
प्री-बोर्ड- 2				
फरवरी 2025			सम्पूर्ण पाठ्यक्रम पुनरावृत्ति	
मार्च 2025			पुनरावृत्ति विद्यार्थियों की आवश्यकतानुसार	
वार्षिक-परीक्षा				

नेर्धारितपाठ्यपुस्तकें :-एनसीईआरटीद्वाराप्रकाशित

- क्षितिजभाग-2
- कृतिकाभाग-2

टैप्पणी-‘केन्द्रीयमाध्यमिकशिक्षाबोर्ड’केद्वाराकियागयासंशोधनमान्यहोगा।

**नवोदय विद्यालय समिति**

**कक्षा 10-विषय हिन्दी 'ब'**

परीक्षा भार विभाजन		
	विषयवस्तु	भार
	<b>खंड अ) वस्तुपरक प्रश्न(</b>	<b>40</b>
1	<b>अपठित गद्यांश</b>	<b>10</b>
	अ) दो अपठित गद्यांश) लगभग 200 शब्दों के (बिना किसी विकल्प के ) 1×5=5(+) 1×5=5(-)दोनों गद्यांशों में एक अंकीय पाँच-पाँच प्रश्न पूछे जाएँगे(	10
2	<b>व्यावहारिक व्याकरण के आधार पर बहुविकल्पात्मक प्रश्न) 1 अंक×16 प्रश्न(</b> <b>कुल 21 प्रश्न पूछे जायेंगे जिनमें से केवल 16 प्रश्नों के उत्तर देने होंगे।</b>	<b>16</b>
	1) शब्द और पद) 2 अंक) (बिना किसी विकल्प के) (2 में से 2 प्रश्न(	02
	2) अनुस्वार) 1 अंक) (अनुनासिक) 1 अंक) (3 में से 2 प्रश्न(	02
	3) उपसर्ग) 2 अंक) (प्रत्यय) 2 अंक) (5 में से 4 प्रश्न(	04
	4) स्वर संधि) 3 अंक) (4 में से 3 प्रश्न(	03
	5) विराम-चिह्न) 3 अंक) (4 में से 3 प्रश्न(	03
	6) अर्थ की दृष्टि से वाक्य भेद) 2 अंक) (3 में से 2 प्रश्न(	02
3	<b>पाठ्यपुस्तक स्पर्श भाग 1</b>	<b>14</b>
	<b>काव्य खंड</b>	<b>7</b>
	पठित पद्यांश पर एक अंकीय पाँच बहुविकल्पी प्रश्न) 1×5=5(	5
	स्पर्श भाग 1 से निर्धारित कविताओं के आधार पर एक अंकीय दो बहुविकल्पी प्रश्न पूछे जाएँगे।) 1×2=2(	2
	<b>गद्य खंड</b>	<b>7</b>
	पठित गद्यांश पर एक अंकीय पाँच बहुविकल्पी प्रश्न।) 1×5=5(	5
स्पर्श भाग 1 से निर्धारित गद्य पाठों के आधार पर विद्यार्थियों की उच्च चिंतन क्षमताओं एवं अभिव्यक्ति का आकलन करने हेतु एक अंकीय दो बहुविकल्पी प्रश्न पूछे जाएँगे।) 1×2=2(	2	
	<b>खंड ब) वर्णनात्मक प्रश्न(</b>	<b>40</b>

	<b>पाठ्यपुस्तक स्पर्श भाग 1</b>		<b>12</b>
4	1	स्पर्श गद्य खंड से निर्धारित पाठों के आधार पर तीन में से दो प्रश्न पूछे जाएँगे। )3 अंक× 2 प्रश्न)(लगभग 60 शब्द(	06
	2	स्पर्श काव्य खंड से निर्धारित पाठों के आधार पर तीन में से दो प्रश्न पूछे जाएँगे। )3 अंक× 2 प्रश्न)(लगभग 60 शब्द(	06
	<b>पूरक पाठ्यपुस्तक संचयन भाग 1</b>		<b>06</b>
	पूरक पाठ्यपुस्तक संचयन के निर्धारित पाठों से तीन में से दो प्रश्न पूछे जाएँगे जिनका उत्तर लगभग 60 शब्दों में देना होगा।		06
	<b>लेखन</b>		<b>22</b>
5	1	संकेत बिंदुओं पर आधारित समसामयिक एवं व्यवहारिक जीवन से जुड़े किन्हीं तीन विषयों में से एक विषय पर लगभग 120 शब्दों में अनुच्छेद लेखन। )अंक× 1 प्रश्न)(विकल्प सहित(	06
	2	अभिव्यक्ति की क्षमता पर केंद्रित व्यावहारिक विषयों में से किसी एक विषय पर लगभग 120 शब्दों में अनौपचारिक पत्र।) 6 अंक× 1 प्रश्न(	06
	3	चित्र वर्णन -चित्र में दिखाई दे रहे दृश्य/घटना का कल्पनाशक्ति से लगभग 100 शब्दों में वर्णन। )विचारों का वर्णन स्पष्ट रूप से चित्र से ही सम्बद्ध होना चाहिए) (बिना किसी विकल्प के(	05
	4	दी गई परिस्थितियों के आधार पर संवाद लेखन लगभग 100 शब्दों में। )विकल्प सहित(	05
<b>कुल</b>			<b>80</b>

	आंतरिक मूल्यांकन	अंक	20
अ	सामयिक आकलन : लिखित परीक्षा में से उत्तम अंक लिए जाएंगे	5	
ब	बहुविध आकलन : प्रश्नोत्तरी ,भाषण,वाद-विवाद	5	
स	पोर्टफोलियो : छात्र की विषयांतर्गत उपलब्धि	5	
द	श्रवण एवं वाचन : मौखिक परीक्षा	5	

	कुल		100
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माह	दिनों की संख्या	कालांश	पाठ का नाम	परियोजना कार्य/क्रिया कलाप	आवधिक परीक्षा/टर्म1/ पुनरावृत्ति / वार्षिक परीक्षा
अप्रैल 2024	24	12	1 दुःख का अधिकार-यशपाल) गद्य( 2 पद - रैदास) पद्य( 3 गिल्लू - महादेवी वर्मा) संचयन( 4 अनौपचारिक पत्र लेखन <b>व्याकरण और रचनात्मक लेखन</b> -अनुस्वार, अनुनासिक -अपठित गद्यांश	1 भित्ति पत्रिका का निर्माण 2 वाद-विवाद प्रतियोगिता विषय - पोशाक एवं व्यक्तित्व। 3 स्वागत भाषण का अभ्यास।	आवधिक परीक्षा-1
जुलाई 2024	26	13	1.एवरेस्ट मेरी शिखर यात्रा- बचेंद्रीपाल )गद्य( <b>व्याकरण और रचनात्मक लेखन</b> - अनुच्छेद लेखन - उपसर्ग ,प्रत्यय	1. पीटी उषा, आरती साहा, किरण बेदी, कल्पना चावला का संक्षिप्त परिचय। 2. संस्कृत एवं उर्दू के उपसर्गों से बनने वाले शब्दों का संचयन।	
अगस्त 2024	25	13	1.तुम कब जाओगे अतिथि -शरद जोशी )गद्य( 2 रहीम के दोहे- रहीम) पद्य( 3स्मृति - श्री राम शर्मा) संचयन( <b>व्याकरण और रचनात्मक लेखन</b> - चित्र वर्णन - संवाद लेखन	1अतिथि देवों भवः सूक्ति की व्याख्या : आधुनिक परिप्रेक्ष्य में। 2 कक्षा में कोई कहानी सुनाइए या किसी घटना का वर्णन कीजिए।	आवधिक परीक्षा-2
सितम्बर 2024	17	08	1 गीत-अगीत- रामधारी सिंह दिनकर )पद्य( <b>व्याकरण और रचनात्मक लेखन</b> -अनौपचारिक पत्र लेखन -विराम चिह्न -शब्द और पद	1 सुलेखन प्रतियोगिता 2 कवि सम्मेलन	

माह	दिनों की संख्या	कालांश	पाठ का नाम	परियोजना कार्य/क्रिया कलाप	आवधिक परीक्षा/टर्म1/ पुनरावृत्ति / वार्षिक परीक्षा
<b>अर्द्धवार्षिक परीक्षा</b>					
अक्टूबर 2024	21	11	बहुविध आकलन : प्रश्नोत्तरी , भाषण ,वाद-विवाद ,रचनात्मक लेखन , सस्वर वाचन) इनमें से कोई एक करें(	-भारत के प्रमुख वैज्ञानिकों का उनके योगदान के साथ संक्षिप्त परिचय दीजिए ।	
नवम्बर 2024	20	10	1 वैज्ञानिक चेतना के वाहक: चन्द्रशेखर वेंकटरमन् - धीरंजन मालवे) गद्य( 2 अग्निपथ- हरिवंश राय बच्चन )पद्य(	-लघु कथा लेखन /कविता लेखन	
दिसम्बर 2024	20	10	3 कल्लू कुम्हार की उनाकोटी - विक्रम सिंह) संचयन( व्याकरण और रचनात्मक लेखन -स्वर संधि -अर्थ की दृष्टि से वाक्य भेद	- विद्यार्थियों के अनुभवों से संबंधित विषय पर सामूहिक चर्चा करें।	आवधिक परीक्षा-3
जनवरी 2025	14	07	1. नए इलाके में , खुशबू रचते हैं हाथ- अरुण कमल) पद्य( 2मेरा छोटा-सा निजी पुस्तकालय - धर्मवीर भारती	1. 4-5 देशभक्ति गीतों का संकलन करके कंठस्थ करें। 2. बाल मजदूरी से संबंधित सांवैधानिक नियमों पर सामूहिक चर्चा करें।	
फरवरी 2025	24	12	-शुक्र तारे के समान - स्वामी आनंद) गद्य( आंतरिक मूल्यांकन में पोर्टफोलियो	पुनरावर्तन	आवधिक परीक्षा-4
मार्च 2025				पुनरावर्तन वार्षिक परीक्षा	

नोट -: निम्नलिखित पाठों से किसी भी प्रकार के प्रश्न नहीं पूछे जाएंगे ।

स्पर्श भाग 1	a) धर्म की आड़ (पूरा पाठ) b) आदमीनामा (पूरा पाठ) c) एक फूल की चाह (पूरा पाठ)
संचयन भाग 1	d) हामिद खां (पूरा पाठ) e) दिये जल उठे (पूरा पाठ)

टिप्पणी सीबीएसई के द्वारा किया गया संशोधन मान्य होगा -



**NAVODAYA VIDYALAYA SAMITI**

**SPLIT UP OF SYLLABUS 2024-25**

**CLASS: X**

**SUBJECT: MATHEMATICS**

(Common for both Basic and Standard)

<b>Units</b>	<b>Unit Name</b>	<b>Periods</b>	<b>Marks</b>
I	NUMBER SYSTEM	15	06
II	ALGEBRA	48	20
III	COORDINATE GEOMETRY	15	06
IV	GEOMETRY	25	15
V	TRIGONOMETRY	35	12
VI	MENSURATION	24	10
VII	STATISTICS & PROBABILITY	28	11
	<b>Total</b>	<b>190</b>	<b>80</b>
	<b>Internal Assessment----- (20 Marks)</b>		<b>20</b>
	<b>Pen Paper Test and Multiple Assessment----- (05 M + 05 M)</b>		
	<b>Portfolio----- (05Marks)</b>		
	<b>Lab Practical (Lab Activities to be done from the prescribed books ----- (05Marks)</b>		
	<b>Note- 1) The teachers can refer NCERT Lab manual for conducting activities. 2) The teachers can take some extra periods to Complete the syllabus month wise.</b>		
	<b>Grand Total</b>		<b>100</b>

**Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25**

Month	NO. OF DAYS	NO. OF PERIODS	Weightage of Marks for the Unit/Chapter	Units/sub-units/Topics/Chapters to be covered	Details of Activity/Practical/Projects to be given	Unit Tests / Formative Tests / Assignment
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APRIL-2024	22	15	06  20 (For full Algebra Unit)	<p><b>UNIT-I- :NUMBER SYSTEM</b> <b>REAL NUMBERS</b> Fundamental Theorem of arithmetic-statements after reviewing work done earlier and after illustrating and motivating through examples, Proofs of irrationality of <math>\sqrt{2}, \sqrt{3}, \sqrt{5}</math> etc</p> <p><b>UNIT II: ALGEBRA- POLYNOMIALS</b> Zeros o a polynomial. Relationship between zeros and coefficients of quadratic polynomials.</p>	<p><b>Activity</b>:-To construct a square root spiral</p> <p><b>Activity</b>:To find the square root of 13,29,73 using graph paper</p> <p><b>Activity</b>: To determine the Zeroes of linear polynomial, Quadratic polynomial and cubic polynomial graphically</p> <p><b>Activity</b>: To draw and observe the shape of curve when the coefficient of <math>x^2</math> is positive and negative and its number of zeroes.</p>	Assignment – I (26APRIL -29 APRIL2024 - PWT-I)
		08				
JULY - 2024	26	15	20 (For full Algebra Unit)	<p><b>UNIT II: ALGEBRA</b> <b>PAIR OF LINEAR EQUATIONS IN TWO VARIABLES</b> Pair of linear equations in two variables and graphical method of their solution, consistency/inconsistency. Algebraic conditions for number of solutions. Solution of a pair of linear equations in two variables algebraically- By substitution, by elimination. Simple situational problems.</p>	<p><b>Activity</b>: To verify the conditions for Consistency/in consistency for pair of linear equations in two variable by graphical method</p> <p>Maintain Portfolio Multiple <b>Assessment</b>: Quiz / Puzzle / Exit cards / Oral test/Origami/PPT/Project/Concept mapping/mind mapping. etc</p>	
		15		06	<p><b>Unit III: <u>Coordinate Geometry</u></b> Review: Concepts of coordinate geometry, graphs of linear equations. Distance formula. Section formula (internal division)</p>	

AUGUST 2024	22	13	15 (For full Geomet ry Unit)	<p><b>Unit IV: Geometry- TRIANGLES</b></p> <p>Definitions, examples, counter examples of similar triangles.</p> <p>1)(Prove)If a line is drawn parallel to one side of a triangle to intersect the other two side’s indistinct points, other two sides are divided in the same ratio.</p> <p>2)(Motivate)If a line divides two sides of a triangle in the same ratio, the line is parallel to the third side.</p> <p>3)(Motivate) If in two triangles, the corresponding angles are equal, their corresponding sides are proportional and the triangles are similar.</p> <p>4)(Motivate)If the corresponding sides of two triangles are proportional, their corresponding angles are equal and the two triangles are similar.</p> <p>5)(Motivate)If one angle of a triangle is equal to one angle of another triangle and the sides including these angles are proportional, the two triangles are similar.</p>	<p><b>Activity:</b>To verify formula for area of triangle by graphical method</p> <p><b>Activity:</b>To verify the distance formula by graphical method</p> <p><b>Activity:</b> Verification of Basic proportionality theorem</p> <p><b>Activity:</b> To find the relationship between Area and sides of similar triangles</p> <p><b>Activity:</b> Verification of Pythagoras theorem By cut and paste activity(Bhaskara Method)</p> <p style="text-align: center;">Or</p> <p><b>Activity:</b> To draw the system of Similar triangles using Y shaped strips with nails</p> <p>Hence verify Thales theorem</p> <p>Maintain Portfolio Multiple Assessment: Quiz / Puzzle / Exit cards / Oral test/Origami/PPT/Project/c oncept mapping/mind mapping etc</p>	<p style="text-align: center;">Assignment- II</p> <p style="text-align: center;">PWT-II (08 AUGUST-10 AUGUST 2024)</p>
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		8	12 (For full Trigonometry Unit)	<p><b><u>INTRODUCTION TO TRIGONOMETRY</u></b> Trigonometric ratios of an acute angle of a right-angled triangle. Proof of their existence (well defined); motivate the ratios which ever are defined at <math>0^{\circ}</math> and <math>90^{\circ}</math>. Values of the trigonometric ratios of <math>30^{\circ}</math>, <math>45^{\circ}</math> and <math>60^{\circ}</math>. Relationships between the ratios. <b><u>TRIGONOMETRIC IDENTITIES</u></b> Proof and applications of the identity <math>\sin^2 A + \cos^2 A = 1</math>. Only simple identities to be given.</p>	<p><b><u>Activity:</u></b> To Draw the graph of trigonometric functions of Sin function of some angles: <math>0^{\circ}</math>, <math>30^{\circ}</math>, <math>45^{\circ}</math>, <math>60^{\circ}</math>, <math>90^{\circ}</math> <b><u>Activity:</u></b> To Draw the graph of trigonometric functions of Cos function for angles: <math>0^{\circ}</math>, <math>30^{\circ}</math>, <math>45^{\circ}</math>, <math>60^{\circ}</math>, <math>90^{\circ}</math> <b><u>Activity:</u></b> To Draw the Graph of trigonometric functions of Tan function for angles : <math>0^{\circ}</math>, <math>30^{\circ}</math>, <math>45^{\circ}</math>, <math>60^{\circ}</math>, <math>90^{\circ}</math></p>	
S E P T E M B E R	16	12	10 (For full Mensuration Unit)	<p><b><u>Unit VI - Mensuration</u></b> <b><u>AREAS RELATED TO CIRCLES</u></b> Area of sectors and segments of a circle. Problems based on areas and perimeter /circumference of the above said plane figures.(In calculating area of segment of a circle, problems should be restricted to central angle of <math>60^{\circ}</math>, <math>90^{\circ}</math> and <math>120^{\circ}</math> only.</p>	<p><b><u>Activity:</u></b> To find the area of circle by using cut and paste activity(dividing the circle into 16 part and converting into parallelogram)</p>	
		18	11 (For full Statistics & Probability Unit)	<p><b><u>Unit-VII - Statistics and Probability</u></b> <b><u>STATISTICS</u></b> Mean median and mode of grouped data (Bimodal situation to be avoided).</p>	<p><b><u>Activity:</u></b> To draw the cumulative frequency curve of more than type and hence find Median <b><u>Activity:-</u></b> To draw a cumulative frequency curve of less than Type less than type(ogive)</p>	
		TERM I EXAMINATION ( 23-09-2024 TO 04-10-2024 )				

OCTOBER - 2024	18	15	<b>20</b> (For full Algebra Unit)	<b>UNIT-II: ALGEBRA</b> <b>QUADRATIC EQUATIONS</b> Standard form of a quadratic equation $ax^2+bx+ c = 0$ , ( $a \neq 0$ ). Solutions of quadratic equations (only real roots) by factorization, and by using quadratic formula. Relationship between discriminant and nature of roots. Situational problems based on quadratic equations related to day to day activities to be incorporated.	<b>Activity-:</b> To draw the graph of quadratic polynomial and observe the shape of the curve hence find the zeroes of the quadratic equation <b>Activity-:</b> To obtain the solution of quadratic equation by completing the square geometrically.
		10	<b>20</b> (For full Algebra Unit)	<b>UNIT-II: ALGEBRA</b> <b>ARITHMETIC PROGRESSIONS</b> Motivation for studying Arithmetic Progression Derivation of the nth term and sum of the first ‘n’terms of A.P. and their application in solving daily life problems.	<b>Activity-:</b> To identify the arithmetic progression in some given list of numbers(patterns) <b>Activity-:</b> To find the sum of n natural numbers <b>Activity:</b> To find the sum of the first n-even natural numbers.
		10	<b>15</b> (For full Geometry Unit)	<b>Unit IV: Geometry- CIRCLES</b> Tangent to a circle at ,point of contact 1) (Prove) The tangent at any point of a circle is perpendicular to the radius through the point o contact. 2) (Prove) The lengths of tangents drawn from an external point to a circle are equal.	<b>Activity:</b> To establish a formula for the sum of first “n” terms of an Arithmetic Progression <b>Activity-:</b> To observe the lengths of two tangents drawn from an external point to a circle are equal. <b>Activity:</b> To draw the pair of tan gents when angle of inclination between two tangents is given <b>Activity:</b> _____ To verify experimentally that the tangent at any point to a circle is perpendicular to the radius through that point.
		10			

NOVEMBER -2024	20	10	<p><b>12 (For full Trigonometry Unit)</b></p> <p><b>11 (For full Statistics &amp; Probability Unit)</b></p>	<p><b><u>HEIGHTS AND DISTANCES</u></b>                      Angle of elevation, Angle of Depression                      Simple problems on heights and distances.                      Problems should not involve more than two right triangles, Angles of elevation / depression should be only 30°, 45°, and 60°.</p> <p><b>Unit VII-Statistics and Probability</b>  <b><u>PROBABILITY</u></b>                      Classical definition of probability. Simple problems on finding the probability of an event.</p>	<p><b><u>Activity:</u></b> To find the angle of elevation / depression of the building / pole / tree by using clinometers</p> <p><b><u>Activity-</u></b>To find experimental probability of units digits of telephone number listed on a page selected at random from a Telephone directory                      To determine probability of a Head or a Tail by tossing a coin maximum number of times and compare with its theoretical probability.</p> <p><b><u>Activity-:</u></b> To find experimental probability of each outcome of a Die when it is thrown a large number of times</p> <p><b><u>Activity-:</u></b>To form a cone from a sector of circle and to find the formula of a cone</p> <p><b><u>Activity:</u></b> To find the surface area of right circular (LSA and TSA) cylinder experimentally (preferably glass vessel or tumbler)</p> <p><b><u>Activity-:</u></b>To find the Relationship among Volumes of a Right circular Cone, a hemisphere, and a right circular cylinder of equal radii and equal Heights</p> <p><b>Note- The teachers can refer NCERT Lab manual for conducting activities.</b></p>
		12	<p><b>10 (For full Mensuration Unit)</b></p>	<p><b><u>Unit VI - Mensuration</u></b>  <b><u>SURFACE AREAS AND VOLUMES</u></b>                      Surface areas and volumes of combinations of any two of the following: cubes, cuboids, spheres, hemispheres and right circular cylinders/cones.</p>	
R 2024	17	<p>REVISION &amp; 1<sup>ST</sup>PRE-BOARD(4DEC-14 DEC2024)</p> <p>PB-I(conducted at national level)</p>			
2025	15	<p>REVISION &amp; 2<sup>ND</sup> PRE-BOARD (20 JAN 2025–30 JAN 2025)</p> <p>PB-II (conducted at RO level)</p> <p>REVISION-SAMPLE PAPERS PRACTICE</p>			

Prescribed Books:

- Mathematics-Text book for Class X, NCERT Publication
- Mathematics Exemplar Problems for Class X, Published by NCERT
- Laboratory Manual-Mathematics, secondary stage ,published by NCERT
- Guide lines for mathematics Laboratory in Schools, Class X-CBSE Publication

<http://www.ncert.nic.in/exemplar/labmanuals.html>

Note:

- a. The activities listed above are suggestive only. Teachers are advised to refer the Lab Manual for class X, published by CBSE. Throughout the year any 10 activities shall be performed by the student from the activities given in the Lab Manual.
- b. Number of periods required for each chapter is mentioned as given in CBSE curriculum.



NAVODAYA VIDYALAYA SAMITI

CLASS-X

SUBJECT: SCIENCE

Unit No	NameoftheChapter/Unit	Marks	Periods
I	ChemicalSubstances- NatureandBehavior Chapters(1-4)	25	42
II	Worldofliving Chapters(6-9)	25	42
III	NaturalPhenomena Chapters(10-11)	12	21
IV	EffectsofCurrent Chapters(12-13)	13	21
V	NaturalResources Chapters(15-16)	05	8
	TOTAL	80	134
	INTERNALASSESSMENT 1. PeriodicWrittenTest(5M) 2. Multipleassessment(5M) 3. Portfolio(5M) 4. Subjectenrichment activity(5M)	20	

Month	No. of Days	No. of Periods	MAIN TOPICS AND SUB-TOPICS TO BE COVERED	PRACTICALS/ACTIVITIES PRACTICAL EXPERIMENTS TO HELD/SPECIFIC ASSESSMENT TOOLS(SUGGESTED)
April-2024	22	08	<b>Natural phenomena</b> Reflection of light by curved surfaces; Images formed by spherical mirrors, Centre of curvature, Principal axis, Principal focus, Focallength, Mirror formula (Derivation not required), Magnification, Refraction law of refraction, Refractive index, Refraction of light by spherical lens image formed by spherical lens	Determination of the focal length of : i) Concave mirror ii) Convex lens By obtaining the image of a distant object
	22	08	<b>UNIT: World of Living</b> Chapter: Life Processes Living Being: Basic concept of Nutrition & Respiration Transport and Excretion in Plants and Animals	Preparing a temporary Mount of a leaf peel to show stomata.

Month	No. of Days	No. of Periods	MAIN TOPICS AND SUB-TOPICS TO BE COVERED	PRACTICALS/ACTIVITIES PRACTICAL EXPERIMENTS TO HELD/SPECIFIC ASSESSMENT TOOLS(SUGGESTED)
	22	08	<p><b>Chemical Substances- Nature and Behavior</b> UNIT- 1: <b>Chemical reactions &amp; Chemical equation:</b> Chemical reactions, Chemical equation, Balanced chemical equation, Implication of a balanced chemical equation, types of chemical reactions: Combination, decomposition, Displacement, Double Displacement or precipitation. Endothermic. Exothermic reactions, Oxidation and reduction.</p>	<p>Performing and observing the following reactions and classifying them into: a) Combination reaction b) Decomposition reaction c) Displacement reaction d) Double displacement reaction-</p> <p>(i) Action of water on quick lime sulphate crystals (ii) action of heat on ferrous (iii) Iron nails kept in copper sulphate solution (iv) Reaction between sodium Sulphate and barium chloride solution</p>
			Periodic Written Test:- 26-29 April 2024	
July-2024	26	8	<p><b>Natural phenomena</b> Lens formula (Derivation not required); Magnification. Power of a lens, Applications of spherical mirrors and lenses functioning of a lens in human eye, Defects of vision and their corrections, Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life (excluding color of the sun at sun rise and sunset)</p>	<p>i) Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result, Tracing the path of a ray of light passing through a glass prism</p>
	26	8	<p><b>Control And Coordination in animals and plants:</b> Tropic Movements in Plants; Introduction of Plant Hormones; Control and Coordination in Animals; Nervous System; Voluntary, In Voluntary and Reflex action Control and Coordination in animals and plants; Chemical Co-Ordination and Animal</p>	<p>c) Experimentally show that carbon dioxide is given out during respiration.</p>

Month	No. of Days	No. of Periods	MAIN TOPICS AND SUB-TOPICS TO BE COVERED	PRACTICALS/ACTIVITIES PRACTICAL EXPERIMENTS TO HELD/SPECIFIC ASSESSMENT TOOLS(SUGGESTED)
			Hormones	
	26	8	UNIT-2Chapter: <b>Acids, bases and salts</b> : Their definitions in terms of furnishing of H <sup>+</sup> and OH <sup>-</sup> ions, General properties, examples and uses, neutralization, concept of pH scale(Definition relating to logarithm not required)	Studying the properties of acids and bases (HCl & NaOH) by their reaction with: d) a)Litmus solution (Blue/ Red)(b)Zinc metal(c)Solid sodium carbonate
Agust-2024	22	7	<b>Effects of current:</b> Electric current, potential difference and electric current, ohms law, resistance, resistivity, factors of which the resistance of a conductor dispensations. Series and parallel combination of resistors and its applications in daily life. heating effect of electric current and its application in daily life .Electric power interrelation between P,V,I and R	Studying the dependence of potential difference(V)across a resistor on the current (I) passing through it and determine its resistance. Also plotting graph between V and I.
	22	7	Chapter: <b>Reproduction: Reproduction</b> in animals and plants(asexual and sexual) Reproductive health-need and methods of family planning; Safe Sex v/s HIV/AIDS; Child bearing and women's health.	Studying (a) binary fission in Amoeba, and (b) budding in yeast with the help of prepared slides
	22	7	UNIT-2- Importance of pH in everyday life; preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris	Finding the pH of the different samples by using pH paper / universal indicator.
			<b>Periodic Written Test:- 08 To 10 August 2024</b>	
September-2024	17	06	<b>Magnetic effects of current:</b> Magnetic Field , Field lines, Field due to a current carrying conductor, Field due to a current carrying coil or Solenoid,	Determination of the equivalent resistance of two resistors when connected in Series and parallel
		06	Unit: <b>World of Living</b> Chapter: Heredity and Evolution: Heredity ; Mendel's contribution- Laws for inheritance of traits: Sex determination : brief introduction(Topics Excluded-evolution, evolution and Classification and evolution should not be equated with progress)	

Month	No. of Days	No. of Periods	MAIN TOPICS AND SUB-TOPICS TO BE COVERED	PRACTICALS/ACTIVITIES PRACTICAL EXPERIMENTS TO HELD/SPECIFIC ASSESSMENT TOOLS(SUGGESTED)
		06	UNIT-3 Chapter: Metals and Non-metals: Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds. Basic metal surgical processes; Corrosion and its prevention. UNIT-4: Carbon compounds: Covalent bonding in carbon compounds. Versatile nature of Carbon. Homologous series.	Observing the action of Zn, Fe, Cu and Al, metals on the following salt solutions a) $ZnSO_4(aq)$ b) $FeSO_4(aq)$ c) $CuSO_4(aq)$  Al $2(SO_4)_3(aq)$ Arrange Zn, Fe, Cu and Al, metals in decreasing order of reactivity based on the above result
<b>TERM-I: 23 September To 04 October 2024</b>				
October-2024	18	06	<b>Effects of electric current:</b> Force on current carrying conductor, Flemings left hand rule	
		06	Unit: Natural Resources: <b>Our Environment</b> Chapter: Our Environment: Eco- System, Environmental problems,	Identification of the different parts of an embryo of a divot seed (Pea, gram or red Kidney bean)
		06	<b>UNIT-4: Carbon compounds:</b> Nomenclature of carbon compounds containing functional groups (halogens, alcohol, ketones, aldehydes, alkenes, and alkynes), difference between saturated hydrocarbons and unsaturated hydrocarbons	1) Study of the properties of acetic acid (ethic acid)
November-2024	20	07	<b>Effects of electric current:</b> Direct current, alternating current: frequency of Ac advantages of A cover Dc, domestic electric circuits	
		07	Unit: Natural Resources: <b>Our Environment</b> , Ozone depletion, waste production and their solutions. Biodegradable and non-biodegradable substances	

Month	No. of Days	No. of Periods	MAIN TOPICS AND SUB-TOPICS TO BE COVERED	PRACTICALS/ACTIVITIES PRACTICAL EXPERIMENTS TO HELD/SPECIFIC ASSESSMENT TOOLS(SUGGESTED)
		07	UNIT-4: <b>Carbon compounds:</b> Chemical properties of carbon compounds (combustion, oxidation, addition, and substitution reaction). Ethanol and Ethanoic acid(only properties and uses), Soap sand Detergents.	1)Study of the comparative cleaning capacity of a sample of soap in soft and hard water.
December -2024	17	08	Chapter16:Management of Natural Resources: (NCERT Chapter 16) will not be assessed in the year end examination however learners may be assigned to read the chapter and encouraged to prepare a brief write up on any concept of this chapter in their portfolio. This may be internal assessment and credit may be given periodic assessment /portfolio.	Revision
			<b>PRE-BOARD-I:- 04 To 14 December 2024</b>	
January -2025			<b>REVISION :PRE-BOARD-II:- 20 To 30 JAN 2025</b>	

**NAVODAYVIDYALAYASAMITI**

**CLASS: X**

**SUBJECT: SOCIAL SCIENCE**

Unit No	Name of The Chapter/ unit	Marks	Periods
<b>I</b>	India and the Contemporary World – II	<b>20</b>	<b>60</b>
<b>II</b>	Contemporary India – II	<b>20</b>	<b>55</b>
<b>III</b>	Democratic Politics – II	<b>20</b>	<b>50</b>
<b>IV</b>	Understanding Economic Development	<b>20</b>	<b>50</b>
	Total	<b>80</b>	<b>215</b>
	Internal Assessment	<b>20</b>	<b>05</b>
	Grand Total	<b>100</b>	<b>220</b>

MONTH	NO OF DAYS	NO OF PERIODS	Main Topic and Sub-Topics to be Covered	Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
<b>APRIL 2024</b>	<b>22 DAYS</b>	<b>38 PERIODS</b>	<b>India and the Contemporary World – II</b>  <b>Section 1: Events and Processes:</b> <b>1. The Rise of Nationalism in Europe:</b>  <b>Contemporary India – II</b> <b>1. Resources and Development:</b>  <b>Democratic Politics – II</b> <b>1. Power Sharing:</b>	<ul style="list-style-type: none"> <li>• If you were a peasant in Uttar Pradesh in 1920, how would you have responded to Gandhiji’s call for Swaraj? Write a paragraph on it.</li> <li>• Visit the field to identify the type/s of soil found in your locality. Discuss the factors responsible of formation of that soil.</li> <li>•</li> </ul>
<b>PWT/UT-1 26-29 April 2024</b>				

MONTH	NO OF DAYS	NO OF PERIODS	Main Topic and Sub-Topics to be Covered	Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
JULY 2024	26 DAYS	44 PERIODS	<p><b>India and the Contemporary World – II</b></p> <p><b>2. Nationalism in India:</b></p> <p><b>Democratic Politics – II</b></p> <p><b>2. Federalism:</b></p> <p><b>Understanding Economic Development</b></p> <p><b>1. Development:</b></p>	<ul style="list-style-type: none"> <li>• Map Activity- Calcutta, Nagpur, mdras, kheda, ch amparan, Ahamdabad, Jaliyanwala bag, Dandi</li> <li>• Visit or Invite personalities associated with local administration and discuss the various forms of powers entrusted with them and their execution.</li> <li>• Download the recent ‘The World Development Report 2020’ and analyse the data for further understanding of the development.</li> </ul>
AUG. 2024	22 DAYS	38 PERIODS	<p><b>Understanding Economic Development</b></p> <p>2. Sectors of the Indian Economy</p> <p>3. Money and Credit:</p> <p><b>Livelihoods, Economies and Societies:</b></p> <p><b>3. The Making of a Global World:</b></p> <p><b>Contemporary India – II</b></p> <p><b>2. Forest and Wildlife</b></p> <p><b>3. Water Resources:</b></p> <p><b>4. Agriculture:</b></p>	<ul style="list-style-type: none"> <li>• Why did various classes and groups of Indians participate in the Civil Disobedience Movement?</li> <li>• Conduct a survey on workers under different sectors in your locality for better understanding of their conditions.</li> <li>• List out the forest and wildlife resources in your region and classify them under various types discussed in the chapter.</li> <li>• Major sea ports- kandala, Mumbai, marmagao, new mangalore, kochi, tucorin, Chennai, vishakhapatnam, Paradeep, haldia,</li> <li>• Make a table of Agriculture crops produced in India and present as a chart</li> </ul>



MONTH	NO OF DAYS	NO OF PERIODS	Main Topic and Sub-Topics to be Covered	Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
<b>PWT-II ( 08-10 Aug.2024)</b>				
<b>SEP-2024</b>	<b>17 DAYS</b>	<b>32 PERIODS</b>	<p><b>Unit 2: Contemporary India – II</b></p> <p><b>5. Minerals and Energy Resources</b></p> <p><b>Unit 3: Democratic Politics – II</b></p> <p><b>4. Gender, Religion and Caste: (excluding image on page 46, 48, 49 of NCERT Textbook 2021 edition)</b></p> <p><b>6. Political Parties:</b></p> <p style="text-align: center;"><b>MID- TERM</b></p> <p style="text-align: center;"><b>23 Sep. – 04 Oct. 2024</b></p>	<ul style="list-style-type: none"> <li>• Make a list of inter-state water disputes.</li> <li>• Visit and appraise a nearby centre practicing or having a structure of rain water harvesting.</li> <li>• Find a SHG in your locality and talk to them to know about their members and its functioning. .</li> <li>• (Group Activity) Analyse Annual Energy Consumption in your Vidyalaya and suggest measures for conservation.</li> <li>• Debate on gender equality</li> <li>• Essay on Reforms of Political parties.</li> </ul>
<b>OCT. 2024</b>	<b>18 DAYS</b>	<b>32 PERIODS</b>	<p><b>Section 3: Everyday Life, Culture and Politics:</b></p> <p><b>5. Print Culture and the Modern World:</b></p> <p><b>6. Manufacturing Industries:</b></p> <p><b>Unit 4: Understanding Economic Development</b></p> <p><b>4. Globalization and the Indian Economy:</b></p>	<p style="text-align: center;"><b>Activity:</b></p> <ul style="list-style-type: none"> <li>• Imagine that you are Marco Polo. Write a letter from China to describe the world of print which you have seen there.</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• You are a bookseller advertising the availability of new cheap printed books. Design a poster for your shop window.</li> <li>• Take some branded products that we use every day. Check which of these are produced by MNCs.</li> </ul>

MONTH	NO OF DAYS	NO OF PERIODS	Main Topic and Sub-Topics to be Covered	Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
NOV. 2024	20 DAYS	36 PERIODS	<p><b>Unit 1: India and the Contemporary World – II</b></p> <p><b>4. The Age of Industrialization:</b></p> <p><b>Section 3: Everyday Life, Culture and Politics:</b></p> <p><b>7. Life Lines of National Economy:</b></p> <p><b>Unit 3: Democratic Politics – II</b></p> <p>7. Outcomes of Democracy:</p> <p><b>Unit 4: Understanding Economic Development</b></p> <p><b>5. Consumer Rights: To be used only for Project Work</b></p>	<ul style="list-style-type: none"> <li>Select any one industry in your region and find its history. How has technology changed?</li> <li>Where do workers come from? How are the products advertised and marketed? Try and talk to the employers and some workers to get their views about the industry's history.</li> </ul> <p><b>Map Work Activity:</b></p> <ul style="list-style-type: none"> <li>Locate and label the list of items given by the CBSE from Ch 6 &amp; 7.</li> <li>Interpretation of various cartoons given in the textbook under the chapter and write a commentary.</li> </ul> <p><b>Activity:</b></p> <ul style="list-style-type: none"> <li>List Indian companies or entrepreneurs emerged as MNCs.</li> </ul>
			<p><b>1<sup>st</sup> Pre-Board (04-14 Dec. 2024)</b>  <b>Dec 2024/ Jan. 2025 – Revision</b>  <b>2<sup>nd</sup> Pre-Board (20-30Jan.2025)</b></p>	<p>1. <b>Every student</b> has to compulsorily undertake <b>any one project</b> on the following topics:                      Consumer Awareness  <b>OR</b>                      Social Issues  <b>OR</b>                      Sustainable Development</p>
<b>Board Exam / Yearly Exam – 15 Feb. 2025 onwards as per CBSE Schedule</b>				

**NAVODAYA VIDYALAYA SAMITI**

**CLASS : X SUBJECT : COMPUTER (BASICS & FOUNDATION)**

Distribution of Marks and Periods Unit Wise				
Unit No.	Unit Name	Marks	Periods	
			Theory	Practical
1.	Networking	15	17	05
2.	HTML	25	30	50
3.	Cyber Ethics	10	08	10
4.	Practical	50	-	-
	<b>Total</b>	<b>100</b>	<b>55</b>	<b>65</b>
<b>Reference Books:</b>				
<ul style="list-style-type: none"> <li>• Computer Applications, A Textbook for Class X - Sumitra Arora</li> <li>• A Textbook of Computer Applications, For Class X-GBP</li> </ul>				

Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
April	22	09T+2P	15 MARKS	<b>Unit 1: Networking:</b> <ul style="list-style-type: none"> <li>• Internet: World Wide Web, web servers, web clients, web sites, web pages, web browsers, blogs, news groups, HTML, web address, e-mail address, downloading and uploading files from a remote site.</li> <li>• Internet protocols: TCP/IP, SMTP, POP3, HTTP, HTTPS. Remote login and file transfer protocols: SSH, SFTP, FTP, SCP, TELNET, SMTP, TCP/IP.</li> </ul>	Exploring different web services on internet Creating email and sending receiving emails using Gmail or other email services. Create a webpage by using various backgrounds and background colours.
<b>PWT-01/UT- 01 (26-29 APRIL 2024)</b>					

Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
JULY	27	08T+3P		<b>Unit 1: Networking:</b> (CONTINUED....) <ul style="list-style-type: none"> <li>Services available on the internet: information retrieval, locating sites using search engines and finding people on the net;</li> <li>Web services: chat, email, video conferencing, e-Learning, e-Banking, eShopping, e-Reservation, e-Governance, e-Groups, social networking.</li> <li>Mobile technologies: SMS, MMS, 3G, 4G.</li> </ul>	Decorate web pages using graphical, create a website using several webpages. Students may use any open source or proprietary tool. Work with HTML forms: text box, radio buttons, checkbox, password, list, combo box, Create webpages with embedded audio and video. elements
AUGUST	22	05T+08P	25 MARKS	<b>Unit 2: HTML</b> <ul style="list-style-type: none"> <li>Introduction to web page designing using HTML: create and save an HTML document, access a web page using a web browser.</li> <li>HTML tags: html, head, title, body, (attributes: text, background, bgcolor, link, vlink, alink), br (break), hr(horizontal rule), inserting comments, h1..h6 (heading), p (paragraph), b (bold), i (italics), u (underline), ul (unordered list), ol (ordered list), and li (list item). Description lists: dl, dt and dd. Attributes of ol (start, type), ul (type).</li> </ul>	Use style sheets to enforce a format in an HTML page (CSS).  Write a blog using HTML pages
<b>PWT-02/ UT- 02 (08-10 AUG 2024)</b>					
SEPTEMBER	15	05T+08P		<b>Unit 2: HTML:</b> (CONTINUED....) <ul style="list-style-type: none"> <li>Font tags (attributes: face, size, color).</li> <li>Insert images: img (attributes: src, width, height, alt), sup (super script), sub (subscript).</li> <li>HTML Forms: Textbox, radio buttons, checkbox, password, list, combobox.</li> <li>Embed audio and video in a HTML page.</li> </ul>	Use style sheets to enforce a format in an HTML page (CSS).  Write a blog using HTML pages
<b>MID TERM (23 SEPT TO 04 OCT 2024)</b>					

Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
OCTOBER	22	05T+08P		<b>Unit 2: HTML: (CONTINUED....)</b> <ul style="list-style-type: none"> <li>• Create a table using the tags: table, tr, th, td, rowspan, colspan</li> <li>• Links: significance of linking, anchor element (attributes: href, mailto), targets.</li> <li>• Cascading style sheets: colour, background-colour, border-style, margin, height, width, outline, font (family, style, size), align, float.</li> </ul>	
NOVEMBER	26	04T+05P	10 MARKS	<b>Unit 3: Cyber ethics</b> <ul style="list-style-type: none"> <li>• Netiquettes.</li> <li>• Software licenses and the open source software movement.</li> <li>• Intellectual property rights, plagiarism and digital property rights.</li> </ul> <b>Unit 3: Cyber ethics</b> <ul style="list-style-type: none"> <li>• Plagiarism and digital property rights.</li> <li>• Freedom of information and the digital divide.</li> <li>• E-commerce: Privacy, fraud, secure data transmission.</li> </ul>	Discussing viruses, malware, spam and Antiviruses Create a web page discussing plagiarism. List some reported cases of plagiarism and the consequent punishment meted out.
<b>DECEMBER Revision, Project Work Preparation &amp; I Pre Board Examination</b>					
<b>JANUARY Revision, Finalisation of Project &amp; II Pre Board Examination</b>					
<b>FEBRUARY Revision</b>					
<b>MARCH - APRIL CBSE Board Examination</b>					

**Breakup of marks for the practicals:**

S. No.	Unit Name	Marks
1.	Lab Test <b>(20 marks)</b>	
	HTML (design one web page based on a diagram)	20
2.	Report File + viva <b>(20 marks)</b>	
	Report file: At least 10 HTML pages	15
	Viva voce (based on the report file)	5
3.	Project (that uses most of the concepts that have been learnt) <b>(10 marks)</b>	
<b>Total (50 marks)</b>		

**NAVODAYA VIDYALAYASAMITI**  
**CLASS – X SUBJECT: PHYSICAL EDUCATION**

standing and Standard Instructions:

1. Morning Jogging/Warm Up Exercises/Mass Drills/Aerobics/Yoga and Meditation
2. Khelo India Fitness Assessment test should be conducted at the Beginning and End of the Year.
3. Inter House Competitions as per Vidyalaya Calendar of Activities
4. Holding Periodical Cross-Country Race/Walk.
5. Trekking and Hiking Activities at least once in a year
6. Showing Live Matches to Children
7. Martial Arts/ Self Defence Skills through Resource Persons
8. Fit India Movement activity should be conducted as per schedule
9. Special day must be celebrated i.e., Yoga Day, National Sport Day
10. ICT to be a part of the pedagogy to make learning enjoyable and joyfully

MONTH	NO. OF DAY	NO OF PDS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed	Assessment Tool(s) Practical Physical Activities Prescribed
			Morning (45 Minutes)	Evening (90 Minutes)	Topics And Sub-Topics		
APRIL 2024	25	04	Meditation Jogging, Marching and Drill, Mass P.T., Calisthenics, Battery of tests, Surya Namaskar & Asanas of Supine position.	Battery of tests, Selection Trials & Intramural competition, Cluster Meet preparation	Physical Education: An integral part of education. Relationship of physical education with other disciplines of knowledge. Characteristic meaning and concept of play, benefits of play, Tournament, Knock-out, Fixture; single and double, League, single and double, combination, Regional Play.	Science– Biology Reflex action. Activity Name : Drop and Catch drill.	Asking children to drop the reaction ball and catch.

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

MONTH	NO.OF DAY	NO OF PDS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed	Assessment Tool(s) Practical Physical Activities Prescribed
			Morning(45Minutes)	Evening (90 Minutes)	TopicsAnd Sub-Topics		
JULY 2024	23	04	Jogging,Plyometric exercise training to develop explosive power. Aerobics,Pranayama andAsanas of ProneLyingPosition.	IntramuralActivities ofAthletics andIndoorGames. Self-defence training for girls	Physicalactivitiesandquality of life,meaning and concept.Benefits of physicalactivities to promotequalityof life. Development ofethicalvalues throughphysicalactivities. Physiological basis ofphysicaleducation. Meaningandconceptofphysiology. Warmingupandcoolingdown.	Science – BiologyRespiration Activityname :Pranayama	Children asked to performpranayamaactivity and Observe theRespirationProcess.
			GeneralConditioning Exercise,LightApparatus drill training todevelop speed,Yogasana ofsitting postureandKriyas.	Inter-houseCompetition ofCombativeSports andIndoorGames	HistoryofGamesandSports, its evolutionTrackandFieldEvents- Any TwoMajor Games ofNVS.Preparation of Record Book,Physical Activitiesand genderdifferences . Physical activities ofwomen and itstraining.	Science – BiologyAdrenaline Hormone ActivityName :Adventureactivity(or) Achieve thegoal	Childrenaskedto achieve thegoalin thelastcriticalpart of thegame.
AUGUST 2024	24	04					

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

MONTH	NO. OF DAY	NO OF PDS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed	Assessment Tool(s) Practical Physical Activities Prescribed
			Morning(45Minutes)	Evening (90 Minutes)	TopicsAnd Sub-Topics		
SEPTEMBER 2024	22	03	Generalconditioning exercises,Interval training,Static stretchingto developflexibility, Suryanamaskar andasanas ofstandingPosture.	Improvisedskills of outdoorgames andthrowingevents, interhousecompetiti on ofoutdoorgames.	Systems andpotentials of humanbody. Demonstrationand administration of various physicalpotential tests. Methods of recordmaintenanc e andpreparation of record fileincludingAnth ropometricandph ysiologicalmeasu rement.	Science – PhysicsLaw ofReflection ActivityName: CarromBoard.	Askedchildren toplay the gameofCarromand observe theLaw ofReflection.
			TERM - 1				
OCTOBER 2024	24	04	Motor abilitydevelopmentr aining,proprioceptiv etraining,batteryofte sts.	Batteryoftests,inter housecompetitions, pace settingactivities	Psychologicalbasi sofphysical education,meanin g andimportance. Habit- formation ofgoodhabits,brea kingbadhabits. Emotions: meaning,types, training forcontrollingem otions.	Science – ChemistryCar bonComponent s ActivityName :AnaerobicEx ercise	AnaerobicExerci se



Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

MONTH	NO. OF DAY	NO OF PDS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed	Assessment Tool(s) Practical Physical Activities Prescribed
			Morning(45Minutes)	Evening (90 Minutes)	TopicsAnd Sub-Topics		
NOVEMBER 2024	13	02	Conditioningexercise s,ContinuousTrainin g todevelopendurance, Zumba, Yogasana:Art isticyogaandPranaya ma,Meditation. Conditioning andgeneralfitnessexe rcises,trainingrelatedt ostrengthendurance, massdrill, marchingband practicePranayama andmeditation.	Inter-housecompetition ofJumping events,Indoor Games,RopeSkippi ng Practiceofskills andtechniques ofAthletic eventsinter houseindoor activitiespreparatio n ofAnnualSports	Awards and rewards isportsrecognition of various imminent sports personalitieswith photograph,yoga. Do'sanddon'tsan d stress managementthro ughyoga Careeravenuesint he field of physicaleducation . Career avenues ineducationalinsti tutions, mediafitness, industries,(Sports ). Educationalqualif ication ofPhysical Education,Leadin g institutes ofPhysical Education.Safety and injuries.Self-safety. Safetyofequipme nt.Prevention of sportsinjuries.	Science – ChemistryChe micalReaction ActivityName :AerobicsDan ce Science – ChemistryMet al andNon-Metal ActivityName :Name thesportsequi pment	AerobicsDance Ask childrento give thenameofsportse quipmentasa Metal andNon– Metal.
	22	04	Revision				

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

MONTH	NO.OF DAY	NO OF PDS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed	Assessment Tool(s) Practical Physical Activities Prescribed
			Morning(45Minutes)	Evening (90 Minutes)			
02/11/2024	13	02	Revision				
03/11/2024	23	03	Revision				
TERM - 2 EXAM							

NAVODAYA VIDYALAYA SAMITI

CLASS:X SUBJECT:ART(VISUAL)

MONTH	NO.OFDAYS	NO.OFPERIODS	Main topics and sub-topics to be covered	Medium/ Materials	Projects/Art integrated Pedagogy Activities Prescribed	Assessment Tool(s)/PracticalH andson Activities Prescribed
APRIL-2024	24	4	<p><b><u>PortraitStudy:</u></b> Studentsprimarilypracticedrawing from live models.</p> <ol style="list-style-type: none"> <li>1. PrinciplesofdrawingthroughC arefulstudyofthehumanhead.</li> <li>2. Observation</li> <li>3. Figureconstruction</li> </ol> <ul style="list-style-type: none"> <li>• Humananatomy</li> <li>• Composition</li> <li>• Proportion</li> </ul>	Pencil/Wate r Colour	Students mayprepare portraits of National leaders, Scientists etc.	Understanding thestrengthof drawing,learn about the characters.
JULY-2024	26	4	<p><b><u>CompositionIndianPainting</u></b> StudyofthePaintingsofIndialike, <i>Rajasthani,Pahari,Miniature,etc.</i> (Power point presentations may be prepared by the students,comprising the photographs &amp; artisans engaged in various art forms)</p>	Poster Colour/Any required materials		Understanding of vastcultural heritageof Indian traditionalArt forms.
AUGUST-2024		4	<p><b><u>Shadanga or Six Limbs of IndianPainting:</u></b></p> <ul style="list-style-type: none"> <li>• <b>Rupabheda:</b> The knowledge of appearance</li> <li>• <b>Pramanam:</b> Correct perception, measureandstructure</li> <li>• <b>Bhava:</b>Actionoffeelingsomforms</li> <li>• <b>Lavanya Yojanam:</b> Infusion of grace, artisticrepresentation</li> <li>• <b>Sadrisyam:</b>Similitude</li> <li>• <b>Varnika Bhanga:</b> It is the artistic manner of using the brush and colours (Importance of knowledge of form, Proportion, Expression, Aesthetic Scheme, Similitude and Colour schemefor a person</li> </ul>	Pencil, Water colour, Poster colouror Acrylic colour	Projectsmay integrate with Maths, Social Science.	Understanding andusageof differentlimbs of Indian Art in the art works created by students

MONTH	NO.OFDAYS	NO.OFPERIODS	Main topics and sub-topics to be covered	Medium/ Materials	Projects/Art integrated Pedagogy Activities Prescribed	Assessment Tool(s)/PracticalH andson Activities Prescribed
			who is going create a painting or sculpture.)			
SEPTEMBER-2024	17	3	<b>CompositionPainting:</b> Composition Painting based on daily life scenes to be donekeeping in view that the basic elements and principles of Art, like; line, colour, for, shape, texture, etc. are incorporated. Compositions based on different ‘Rasas’ like, <i>Karuna, Bhakti, Vatsalya</i> , etc. may be incorporated. (Presentation of compositions by great masters may be shown. Reference may be takenfromInternet)	Water colour, Poster colouror Acrylic colour. A system with internet facility in Artroomis essential	Projectsmay integrate withHindi&oth er language subjects	Understand theversatility, usage of medium and compositionof painting.
			<b>23 SEPTEMBER – 04 October2024Term-1</b>			
OCTO BER- 2024	18	3	<b>Design(2-Dimensional):</b> ✓ <b>Design-</b> Creating a piece of design by usingasingleobjectinblack&white and colour. <b>Lettering-</b> Composing alphabets in black&whiteandcolour.	Pen&ink Poster colour		Understanding theprocessof creating designs with oneelement.
NOVEMBER-2024	20	2	<b>Design(3-Dimensional):</b> • Designing three dimensional objects in clay • Study and use of waste materials like, paper,sticks,straw,fibre,etc. • Understanding of negative and positive space. CompositioninclayandPOPblocks.	Clayand POP	Projectsmay integrate with Mathematics ,Science and Language Subjects.	Learndifferent types of sculpture techniques.
		2	<b>PrintMaking:</b> a) Anticipatory and imaginative use of gatheringimpressions. b) Fundamentals of various methods of taking prints. c) Observation of intrinsic tones & texture of natural and man-made things. d) Lino cut mono print in various subjects like,landscape,stilllifeand	Linosheets Lino tools Printing inks	Projectsmay integrate with Mathematics , Science, Social Scienceand	Understanding methods of printmakingas well as differenttypes of printing processes.

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

MONTH	NO.OFDAYS	NO.OFPERIODS	Main topics and sub-topics to be covered	Medium/ Materials	Projects/Art integrated Pedagogy Activities Prescribed	Assessment Tool(s)/PracticalH andson Activities Prescribed
			<p>compositions.</p> <p>e) Techniques of taking prints in mono colour.</p> <p>f) Experience of printing on different types of surfaces.</p> <p>(A brief outline of different printing processes like, screen printing, offset printing be given to the students)</p>		Language Subjects.	
DECEMBER- 2024	20	3	<p><b>ComputerAidedDesigns:</b> Basic Working knowledge of Computer Aided Designs on various designing softwarelike,CorelDraw,Photoshop, Androidappsetc.etc. (Simple designs like book covers, posters may be taught to the students. Various components of designs may be copied from internet.)</p>	Computer with internet. Installation of Photoshop & Corel Draw.	Projectsmay integrate with Mathematics ,Computer Scienceand Typography	Usageof different designing software.
			<b>BOARD EXAMS</b>			

List of Ek Bharat Shrest Bharat paired states for Art Integrated project (For Class IX & X) is given below. The project can be well planned in the beginning of the academic year and executed in a Time bond manner with the team work of Subject teacher, Art Teacher & Students. Students can use research based topics other than the subject area.

NAVODAYA VIDYALAYA SAMITI

CLASS:X

SUBJECT:MUSIC

- 1) Students learn about primary concepts of Music and also learn to correlate it with science and other subjects.
- 2) Students learn Songs in different languages for inculcation of National Integrity as well as explore diversities and develop respect towards different cultures.
- 3) Students explore Local Folk Culture
- 4) Vision of the students is broadened so that the little minds will get a chance to think beyond the barriers of so-called subject boundaries and learn the concepts with broad vision.
- 5) Students are exposed to the integration of latest technology in music.

Month	Days	Period	Main-Topics and Sub-Topic to be Covered	Projects/Art(Performing)Integrated Pedagogy-Activities Prescribed	Assessment Tool(s)/Practical Activities Prescribed (Vocal/Instrumental)
APRIL/JUNE 2024	24	03	1. Light music OR Sugam Sangeeth (Geeth, Bhajan, Folk Songs, Patriotic, songs )	<p>SUGGESTED ACTIVITIES</p> <ul style="list-style-type: none"> <li>• Discussion and demonstration of light music <b>(Interdisciplinary Approach)</b></li> <li>• Language &amp; Literature:</li> <li>• Students are exposed to the importance of words in such compositions.</li> </ul> <p>Social Science</p> <ul style="list-style-type: none"> <li>• Students get exposed to the life style of different people and their values.</li> </ul>	<ul style="list-style-type: none"> <li>• Demonstration using digital resources of different musical performances.</li> <li>• Project Work –</li> <li>• Students are asked to prepare charts containing pictures of performers of respective styles of music.</li> </ul>
		01	2. Ghazals, Bhajan	<p>Discussion about the music form ghazals, bhajan and its poetic values <b>(Interdisciplinary Approach)</b></p> <p>Language &amp; literature</p> <ul style="list-style-type: none"> <li>• Students will get acquainted with poetic beauty of the language. History</li> <li>• Students may explore the historical reference of music and its development through the mixture of different cultures.</li> </ul>	<ul style="list-style-type: none"> <li>• Question Answer</li> <li>• Project work – prepare a list of famous ghazal singers</li> </ul>

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

Month	Days	Period	Main-TopicsandSub-Topicstobe Covered	Projects/Art(Performing)IntegratedPedagogy-Activities Prescribed	AssessmentTool(s)/PracticalActivitiesPrescribed(Vocal/Instrumental)
JULY 2024	26	03	3. Classical Dance forms of India.	<ul style="list-style-type: none"> <li>• Discussion about the classical dance forms of India.</li> <li>• Discussion of the integration of art, music and dance in various forms.</li> <li>• Discussion about the aesthetic value of costumes used in such forms.</li> </ul> <p><b>(Interdisciplinary Approach)</b></p> <p>Art &amp; Culture: Students get exposed to the different aspects of art like colour scheme, theme, emotion etc.</p> <p>Social Science: Students will get an idea about the historical importance and development of such art forms</p>	<p>Show videos of dance forms of India.</p> <p>Show videos of learning the art form &amp;preparations of costumes for the performances.</p> <p>Project Work –</p> <ul style="list-style-type: none"> <li>• Students are asked to prepare a presentation of different dance forms.</li> </ul>
		01	4. Brief Introduction of Oscar award winner A, R Rahman. Or Bharat ratna lata mangeskar	<p>Discussion about life of A.R Rahman. Discuss about the adoption of technology in making music.</p> <p><b>(Interdisciplinary Approach)</b></p> <p>XII) Value Education Students will get an idea about the importance of aim, dream and dedication to achieve something great in life through this topic.</p>	<p>With the use of digital resources Students are shown the videos of artist’s studio session, live stage shows awarding ceremony etc., Students are asked to prepare a list of musicians who have won Oscar awards.</p>

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

Month	Days	Period	Main-TopicsandSub-Topicstobe Covered	Projects/Art(Performing)IntegratedPedagogy-Activities Prescribed	AssessmentTool(s)/PracticalActivitiesPrescribed(Vocal/Instrumental)
AUGUST 2024	25	02	5.Life history of Pandit. Bhimsen Joshi	<p>Discussion about the life of Pandit. Bhimsen Joshi and his contributions to Indian music.</p> <p>(Interdisciplinary Approach)</p> <p>Social Science: Students get exposed to the social life in different parts of the country.</p>	<ul style="list-style-type: none"> <li>• Use of digital resources Question and Answers</li> <li>• Project Work – Collect the pictures of famous Indian Vocalists.</li> </ul>
		02	6.Life history of Pandit Ravishankar Or Ustad Bismillah khan	<p>Discussion about the life of Pandit Ravishankar and his contributions to Indian music.</p> <p>(Interdisciplinary Approach)</p> <p>Social Science: Students get exposed to the social life in different parts of the country.</p>	<ul style="list-style-type: none"> <li>• Question – Answer about the systems of music in India.</li> <li>• Preparation of a chart of Stringed instruments of India.</li> </ul>



Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

Month	Days	Period	Main-TopicsandSub-Topicstobe Covered	Projects/Art(Performing)IntegratedPedagogy-Activities Prescribed	AssessmentTool(s)/PracticalActivitiesPrescribed(Vocal/Instrumental)
SEPTEMBER 2024	17	03	7.Introduction to 'Audacity' a Digital Audio Workstation	<p>xx) Demonstration of software which is available as free to download (Opensource)</p> <p>(Interdisciplinary Approach)</p> <ul style="list-style-type: none"> <li>IT: Students get exposed to the revolutionary changes brought by IT in the field of music.</li> </ul> <p>Science: Students are exposed to the field of audio engineering and music production.</p>	<ul style="list-style-type: none"> <li>Question - Answers</li> <li>Students are asked to do multitrack recording, editing and mixing of audio files.</li> </ul>
SEPTEMBER - OCTOBER 2024 TERM - I EXAM					
OCTOBER 2024	18	03	8. A Bhajan of your choice.	<ul style="list-style-type: none"> <li>Discussion about the song and its meaning</li> <li>Discussion about Human values.</li> <li>Recitation of the song by teacher followed by the students</li> </ul> <p><b>(Interdisciplinary Approach)</b></p> <p>VALUE EDUCATION : Students explore human values as described in the Bhajan</p> <p>SOCIAL SCIENCE: Collect information about lives and deeds of various saints and leaders who have lived according to the values in their life and set an example.</p>	<ul style="list-style-type: none"> <li>Vocal / Instrumental Performance</li> <li>Simple question – Answer about Raga upon which the tune of the Bhajan is based etc.</li> </ul>

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

Month	Days	Period	Main-TopicsandSub-Topicstobe Covered	Projects/Art(Performing)IntegratedPedagogy-Activities Prescribed	AssessmentTool(s)/PracticalActivitiesPrescribed(Vocal/Instrumental)
NOVEMBER 2024	20	04	9.Voice culture and singing techniques	<ul style="list-style-type: none"> <li>Discuss and demonstrate about the importance of voice and words in music.</li> </ul> <p><b>(Interdisciplinary Approach)</b> Science: Students explore the production and dynamics of sound.</p>	xx) Vocal performance xxi) Students are asked to list some examples.

DECEMBER 2024	20	03	10.Creating a new song for Vidyalaya with the help of language teachers	<ul style="list-style-type: none"> <li>Discussion about structure of a musical composition.</li> <li>Discussion on the importance of lyric.</li> </ul> <p><b>(Interdisciplinary Approach)</b> Language &amp; Literature: Students explore different types of songs and lyrics to evaluate its influence in human life. Value: Students will get a chance to create something new. Moreover, they will get a chance to develop the self-analytical and critical abilities.</p>	15. Vocal /Instrumental performance 16. Presentation of song on stage and digital release of the same in social media.
JANUARY, FEBRUARY, MARCH 2025	REVISION OF ALL THE TOPICS & PRACTICAL EXAMS(VOCAL / INSTRUMENTAL)				

- As per NEP 2020 Art Integrated Learning (AIL) is a teaching-learning process which is based on learning 'through the hearts' and 'with the hearts'. One of the core principles guiding the education system, according to the policy, would be the 'extensive use of technology in teaching and learning. In order to maximize the usage of ICT, a well-equipped Music Room with computer, Internet connection, required instruments, software and other facilities are to be ensured.
- Two workshops on music (Vocal/Instrumental) may be conducted with the help of professional artists to enable children to perform on their age.
- Weekly coaching classes may be conducted (vocal/instrumental) with the help of professionals in their respective field by using VN.

**SPLIT UP OF SYLLABUS  
CLASS XI**

**NAVODAYA VIDYALAYA SAMITI**  
**Split up of syllabus**  
**CLASS : XI      SUBJECT : ENGLISH**

Unit No	Name of The Chapter/unit	Marks
01	Reading Skills	26
02	Creative Writing Skills	23
03	Literature Text Book and Supplementary reading text	31
	Total	80
01	Internal Assessment	
	1) Listening	05
	2) Speaking	05
	3) Project work	10
	<b>Grand Total</b>	<b>100</b>

MONTH	NOOFDAYS	NOOFDAYS	Main Topic and Sub-Topics to be Covered		Activities/Projects/ Practical Experiments to be Held/Specific Assessment Tool(s)(Suggested)
			Hornbill/ Snapshots	Reading, Grammar & Advance Writing Skills	
APRIL. 2024	21	21	The Summer of the White Beautiful Horse (Prose)  A Photograph (Poem)	Short Writing Task- Classified Advertisements	1. Collecting Ads and displaying in the classrooms 2. Students may be instructed to analyse the lesson and decipher the theme of the lesson. Organise the class to form pairs. Provide the students with chits based on the content of the lesson. Give the students 10 minutes to interpret the topic and present. Summarise and share the feedback too.
JULY 2024	26	26	The Portrait of a Lady (Prose)	Short Writing Task- -.2. Poster 1. Unseen Passage to assess comprehension, interpretation inference and vocabulary. (Factual, descriptive or literary)	1. Making posters on current topics – Cyber Security, AI etc 2. Prepare a 'Thankyou' card for you and mother /grandfather and mention one of her/his characteristic straits that inspire you the most. 3. Write few lines on the characteristics of your parents that you like the most
<b>1<sup>st</sup> Unit Test 26 to 29 April 2024</b>					
AUGU ST20	22	22	2. We're not Afraid to Die .....If we can be together (Prose) 3. Discovering Tut: the saga	2. Unseen Passage: Case –based passage with Verbal / Visual inputs like statistical	3. Grammar - Practice of Questions on Gap filling 1) Practice of ASL 2) Collecting posters and displaying in Classrooms 3) Class magazine on the life, traits, festivals, art and Culture of a tribe: The students can work on the following to give a multi Cultural picture of the tribes in India as Gond, Bhil, Khasi, Munda Angami etc. Find more about it and Create an art integrated project.

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

MONTH	NOOFDAYS	NOOFDAYS	Main Topic and Sub-Topics to be Covered			Activities/Projects/ Practical Experiments to be Held/Specific Assessment Tool(s)(Suggested)
			Hornbill/ Snapshots	Reading, Grammar & Advance Writing Skills		
			Continues(Prose)	data, chart etc.	(Tenses, Clauses)	4) Listening skills practice test. 5) Browse internet to get more information about the mummies of Egypt
<b>2nd Unit Test :08-10 August 2024</b>						
SEPTEMBER2024	17	19	1. The Laburnum Top (Poem) • The Address (Prose)	<ul style="list-style-type: none"> <li>Long Compositions:                             <ol style="list-style-type: none"> <li>Speech Writing.</li> <li>Debate Writing.</li> </ol> </li> </ul> Grammar :Questions on re-ordering / Transformation of sentences		5) Presentation of speeches by students both oral & written 6) Read the diary of Lena Mukhina who struggled to fight starvation and an internal battle of isolation. Collect quotes and pictures of World wars, and the wars going on in the world presently. The students may be asked to add more phrases indicating ideas of ensuring peace in the world.
			<ul style="list-style-type: none"> <li>The Voice of the Rain(Poem)</li> <li>Mother's Day(Play)</li> </ul>	3.Note Making & Summarization		<ul style="list-style-type: none"> <li>Topics for assessment of speaking skills to be assigned to students.</li> <li>Fastest reading contest may be organized.</li> <li>Ask the students to write a poem on natural phenomena.</li> <li>The Students may be asked to find out experiments In recycling that help in environmental conservation.</li> </ul>
<b>Term-01(23 September to 04 October 2024)</b>						
OCTOBER 2024	17	19	<ul style="list-style-type: none"> <li>Childhood(Poem)</li> <li>Birth(Prose)</li> </ul>	Practice on Classified Advertisement		1)Group discussion on the following issues that has provoked controversies and affected the lives of people- <ul style="list-style-type: none"> <li>Cyberbullying</li> <li>Union common civil code</li> <li>Gender discrimination etc.</li> </ul> 2. Write a brief note on one of your childhood experience (good or bad) and present the same in the class. Story-Telling Competition
NOVEMBER 2024.	20	20	The Adventure 1. Revision of writing skills – Speech Writing, Debate writing	Transformation of sentence.		Topics on speech writing – <ol style="list-style-type: none"> <li>Artificial Intelligence</li> <li>Women Empowerment</li> <li>Use of Social Media</li> </ol> Topics of Debate Writing may also be discussed.
DECEMBER R2024		20	<ul style="list-style-type: none"> <li>Silk Road(Prose) – Revision</li> <li>Project Work</li> </ul>	Comprehension of Unseen Passages(Revision) Preparation for the presentation of ASL		<ul style="list-style-type: none"> <li>Project work to be assigned.</li> <li>The documentary film on the Mount Kailash may be shown and may be asked to write a brief note on it.</li> </ul>

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

MONTH	NOOFDAYS	NOOFDAYS	Main Topic and Sub-Topics to be Covered		Activities/Projects/ Practical Experiments to be Held/Specific Assessment Tool(s)(Suggested)
			Hornbill/ Snapshots	Reading, Grammar & Advance Writing Skills	
	18				<ul style="list-style-type: none"> <li>The Students may be asked to write About the journey that they have undertaken. Project on the stories of the People who scaled Mount Everest</li> </ul>
			<b>3<sup>rd</sup> Unit Test - 12-14 December 2024</b>		
JANUARY, 2025	14	14	Father to Son (Poem)	Note Making and Summarization (Revision)	<ul style="list-style-type: none"> <li>Conversation Cards/ Abbreviation flash cards can be used to teach classified ads. Students to create their own ads based on advertising technique they have learnt.</li> <li>Organise the Story-Telling Competition Create a dialogue between father and son non generation gap (dialogue may be Written by students)</li> </ul>
			<b>4<sup>th</sup>UnitTest 06-08 Feb2025</b>		
FEBRUARY, 2025	21	21	The Tale of Melon City	Revision of unseen comprehension passage (Case Based)	III) Submission of Project. IV) ASL to be conducted. Revision of syllabus
MARCH 2025			Revision		
			<b>TERM-2 EXAM 17-28 March 2025</b>		

NAVODAYA VIDYALAYA SAMITI

CLASS: 11

SUBJECT: हिन्दी

काई सं	इकाई / पाठ का नाम	उप-भारांक	भारांक
<b>खंड अ ( वस्तुपरक प्रश्न )</b>			
1.	<b>अपठित गद्यांश/पद्यांश:</b> <ul style="list-style-type: none"> <li>एक अपठित गद्यांश (अधिकतम 300 शब्दों का) (1 अंक x 10 प्रश्न)</li> <li>दो अपठित पद्यांशों में से कोई एक पद्यांश ( अधिकतम 150 शब्दों का) (1 अंक x 5 प्रश्न)</li> </ul>	10 5	15
2.	पाठ्य पुस्तक <b>अभिव्यक्ति और माध्यम</b> की इकाई एक से पाठ संख्या 1 तथा 2 पर आधारित। v) बहुविकल्पात्मक प्रश्न (1 अंक x 5 प्रश्न)	5	5
3.	<b>पाठ्य पुस्तक आरोह भाग -1</b> से (i)बहुविकल्पात्मक प्रश्न <ul style="list-style-type: none"> <li>पठित काव्यांश पर पाँच बहुविकल्पी प्रश्न (1 अंक x 05 प्रश्न)</li> <li>पठित गद्यांश पर पाँच बहुविकल्पी प्रश्न (1 अंक x 05 प्रश्न)</li> </ul>	5 5	10
4.	<b>पूरक पाठ्य पुस्तक वितान भाग -1</b> से बहुविकल्पी प्रश्न <ul style="list-style-type: none"> <li>पठित पाठों पर दस बहुविकल्पी प्रश्न (1 अंक x 10 प्रश्न)</li> </ul>	10	10
<b>खंड-ब ( वर्णनात्मक प्रश्न )</b>			
5.	पाठ्य पुस्तक, अभिव्यक्ति और माध्यम से सृजनात्मक लेखन और व्यावहारिक लेखन पाठ संख्या 1 (जनसांचार माध्यम), 2 (पत्रकारिता के विविध आयाम), 9 (डायरी लेखन की कला), 10 (कथा-पटकथा), 14 (कार्यालयी लेखन और प्रक्रिया), 15 (स्व-वृत्त लेखन और रोज़गार संबंधी आवेदन पत्र) तथा 16 (कोश- एक परिचय) पर आधारित (i) दिये गए चार अप्रत्याशित विषयों से किसी एक विषय पर लगभग 120 शब्दों में रचनात्मक लेखन (5 अंक x 1 प्रश्न)	5	

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

	<ul style="list-style-type: none"> <li>• औपचारिक पत्र लेखन ( 5 अंक x 1 प्रश्न ) ( विकल्प सहित )</li> <li>• डायरी लेखन, कथा- पटकथा विषयों पर लेखन पर आधारित दो प्रश्न ( 3 अंक x 2 प्रश्न ) (विकल्पसहित( लगभग 60 शब्दों में )</li> <li>• स्ववृत्त लेखन और रोजगार संबंधी आवेदन पत्र तथा शब्दकोश, सन्दर्भ ग्रंथों की उपयोगी विधि और परिचय पर आधारित तीन में से दो प्रश्न ( 2 अंक x 2 प्रश्न ) (विकल्पसहित) (लगभग 40 शब्दों में )</li> </ul>	5 6 4	20
6.	<p>पाठ्य पुस्तक आरोह भाग-1</p> <ul style="list-style-type: none"> <li>• काव्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर ( लगभग 60 शब्दों में ) ( 3 अंक x 2 प्रश्न )</li> <li>• काव्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर )लगभग 40 शब्दों में ) ( 2 अंक x 2 प्रश्न (</li> <li>• गद्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर ( लगभग 60 शब्दों में ) ( 3 अंक x 2 प्रश्न)</li> <li>• गद्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर ( लगभग 40 शब्दों में ) ( 2अंक x 2 प्रश्न)</li> </ul>	6 4 6 4	20
7.	<p>xi) श्रवण एवं वाचन xii) परियोजना कार्य</p>	10 10	20
	<b>कुल</b>	100	100

माह	कार्यदिनांक	कालांतर	पाठ / उप-पाठ का नाम			क्रिया -कलाप / परियोजना कार्य
			आरोह भाग -एक	वितान भाग - एक	अभिव्यक्ति और माध्यम/ रचनात्मक लेखन	
अप्रैल ,2024	24	28	<p>गद्य खंड: 1. नमक का दरोगा- प्रेमचंद पद्य खंड 2. हम तौ एक-एक करि जानां-कबीर</p>	<p>भारतीय गायिकाओ में बेजोड़ : लता -मंगेशकर कुमार गंधर्व</p>	<p>अपठित गद्यांश अपठित पद्यांश</p>	<p>अन्य संत कवियों के ईश्वर सम्बन्धी विचारों पर परिचर्चा</p>
<b>प्रथम इकाई परीक्षा</b>						



माह	कार्यदिनांक	कालांतर	पाठ / उप-पाठ का नाम			क्रिया -कलाप / परियोजना कार्य
			आरोह भाग -एक	वितान भाग - एक	अभिव्यक्ति और माध्यम/ रचनात्मक लेखन	
जुलाई 2024	26	30	<p>गद्य खंड :</p> <p>मियां नसीरुद्दीन - कृष्णा सोबती</p> <p>अपू के साथ ढाई साल - सत्यजित राय</p> <p>पद्य खंड</p> <ul style="list-style-type: none"> <li>मेरे तो गिरिधर गोपाल दूसरो न कोई- मीराबाई</li> </ul>	<p>भारतीय गायिकाओ में बेजोड़ :</p> <p>लता मंगेशकर- कुमार गंधर्व</p>	<p>1-जनसंचार माध्यम</p> <p>2-औपचारिक पत्र लेखन</p>	<p>संगीत शिक्षक से चर्चा कर चित्रपट संगीत व शास्त्रीय संगीत में अंतर सूचीबद्ध करना</p>

अगस्त ,2024	25	28	गद्य खंड :: 1.विदाई संभाषण - बाल मुकुंद गुप्त पद्य खंड 1.घर की याद - भवानी प्रसाद मिश्र	राजस्थान की रजत बूँदें - अनुपम मिश्र	पत्रकारिता के विविध आयाम	अंग्रेजी शासन के दौरान भारतीयों पर हुए अत्याचार --- परिचर्चा।
<b>द्वितीय इकाई परीक्षा</b>						
सितम्बर ,2024	17	19	पुनरावृत्ति गद्य खंड: (i) गलता लोहा- शेखर जोशी पद्य खंड (ii)चंपा काले काले अच्छर नहीं चीन्हती त्रिलोचन -	राजस्थान की रजत बूँदें - अनुपम मिश्र	1.कथा - पटकथा 2.डायरी लेखन	प्रकृति को सन्देश वाहक के रूप में व्यक्त करवाली कुछ कविताओं का संकलन ।
<b>प्रथम सत्रांत परीक्षा</b>						
अक्टूबर, 2024	21	24	गद्य खंड : 1.रजनी - मन्नू भंडारी	आलो- आंधारि (बेबी हलदार)	कार्यालयी लेखन और प्रक्रिया	कार्यालयी लेखन और प्रक्रिया में प्रयुक्त होने वाले प्रपत्रों की जानकारी प्राप्त करना
नवंबर, 2024	20	23	पद्य खंड : 2. गज़ल- दुष्यंत कुमार	आलो - आंधारि बेबी) हलदार(	स्व-वृत्त ( बयोडेटा ) लेखन	

दिसंबर 2024	20	23	पुनरावृत्ति गद्य खंड :जामुन का पेड़ ) कृष्णचंद्र(	आलो - आंधारि बेबी) हलदार(	रोजगार संबंधी आवेदन पत्र	आज़ादी के आन्दोलन में प्रयुक्त एवं प्रचलित नारों का संकलन ।  हिन्दी साहित्य के प्रसिद्ध डायरी लेखन के उदाहरणों का संकलन।
<b>तृतीय इकाई परीक्षा</b>						
जनवरी 2025	14	16	गद्य खंड: 2. भारत माता - जवाहरलाल नेहरू पद्य खंड 1. हे भूख, मत मचल-अक्क महादेवी 2. से मेरे जूही के फूल- अक्क महादेवी	भारतीय कलाएं	कोश- एक परिचय एवं संदर्भ ग्रन्थों की उपयोगी विधि और परिचय	पुस्तकालय में उपलब्ध विभिन्न प्रकार के शब्दकोशों की सूची बनाना
फरवरी, 2025	24	28	पद्यखंड: 1. सबसे खतरनाक अवतार सिंह- पाश 2. आओ मिलकर बचाएं - निर्मला पुतुल	भारतीय कलाएं	रचनात्मक लेखन संक्षिप्त प्रश्नोत्तर	
<b>चतुर्थ इकाई परीक्षा</b>						
मार्च , 2025			वार्षिक परीक्षा को ध्यान में रखते हुए पूर्व पठितांश की पुनरावृत्ति । <b>वार्षिक परीक्षा</b>			

NAVODAYA VIDYALAYA SAMITI

CLASS: XI

SUBJECT: MATHEMATICS SUBJECT CODE: 041

Unit No	Name of The Chapter/unit	Periods	Marks
I	Sets and Functions	60	23
II	Algebra	50	25
III	Coordinate Geometry	50	12
IV	Calculus	40	08
V	Statistics and Probability	40	12
	Total	240	80
	Internal Assessment----- (20Marks)		20
	A. Unit Tests(Best 2 out of 3 tests conducted) ----- (10Marks)		
	B. Mathematics Activities ----- (10Marks)		
	1.The activities performed by the student throughout the year end record keeping ----- (05Marks) 2.Assessment of the activity performed during the year end test ----- (03Marks) 3.Viva-voce ----- (02Marks)		
	Grand Total		100

MONTH	NOOFDAYS	NOOFPERIODS	Main Topic and Sub-Topics to be Covered	Activities/Projects/Practical Experiments to be Held/Specific Assessment Tool(s) (Suggested)	
APRIL 2023	22	20	<p><b>Unit -I : Sets and Functions Sets</b> Sets and their representations, Empty set, Finite and Infinite sets, Equal sets, Subsets, Subsets of a set of real numbers especially intervals (with notations). Universal set. Venn diagrams. Union and Intersection of sets. Difference of sets. Complement of a set. Properties of Complement.</p> <p><b>Relations and Functions</b> Ordered pairs. Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the set of reals with itself (upto <math>R \times R \times R</math>).Definition of relation, pictorial diagrams, domain, co-domain and range of a relation.</p>	<p>Activity 1: To find the number of subsets of a given set and verify that if a set has 'n' elements then total number of subsets is <math>2^n</math></p>	UT – 1 (26-29 April 2024)
		10			

MONTH	NO OF DAYS	NO OF PERIODS	Main Topic and Sub-Topics to be Covered	Activities/Projects/Practical Experiments to be Held/Specific Assessment Tool(s) (Suggested)	
JULY 2024	26	10  10  10	<p><b>Relations and Functions</b> (continue)</p> <p>Function as a special type of relation. Pictorial representation of a function, domain, co-domain and range of a function. Real valued functions, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum, exponential, logarithmic and greatest integer functions, with their graphs. Sum, difference, product and quotients of functions.</p> <p><b>Unit-II: Algebra</b></p> <p><b>Complex numbers and Quadratic equations</b></p> <p>Need for complex numbers, especially <math>\sqrt{-1}</math>, to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. Argand plane</p> <p><b>Permutations and Combinations:</b></p> <p>Fundamental principle of counting. Factorial <math>n</math>. (<math>n!</math>)</p> <p>Permutations and combinations, derivation of</p> <p>Formulae for <math>{}^n P_r</math> and <math>{}^n C_r</math> and their connections, simple applications.</p>		



MONTH	NOOFDAYS	NOOFPERIODS	Main Topic and Sub-Topics to be Covered	Activities/Projects/Practical Experiments to be Held/Specific Assessment Tool(s) (Suggested)
SEPTEMBER 2024	16	5	<b>Sequences and Series</b> (continue) Geometric Progression (G.P.), general term of a G.P., sum of $n$ terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.), relation between A.M. and G.M.	Activity 3: To demonstrate that the arithmetic mean of two different positive numbers is always greater than the geometric mean.  Activity4: To find analytically $\lim_{x \rightarrow c} f(x) = \frac{x^2 - c^2}{x - c}$
		20	<b>Unit – IV: Calculus</b> <b>Limits</b> Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea of limit. Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions.	
<b>TERM TEST -1 (23-09-24 TO 04-10-24)</b> <b>Up to September syllabus</b>				
OCTOBER 2024	18	20	<b>Unit- V: Statistics and Probability</b> <b>Statistics</b>  Measures of Dispersion: Range, Mean deviation, variance and standard deviation of ungrouped/ grouped data.	
<b>Autumn Break(28-10-24 TO 03-11-24)</b>				
NOVEMBER 2024	20	15	<b>UNIT III: COORDINATE GEOMETRY</b> <b>Straight lines</b> Brief recall of two dimensional geometry from earlier classes. Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axis, point -slope form, slope-intercept form, two-point form, intercept form, Distance of a point from a line.	Activity5: To verify that the equation of a line passing through the point of intersection of two lines $a_1x+b_1y+c_1=0$ and $a_2x+b_2y+c_2=0$ is of the form $(a_1x+b_1y+c_1) + \lambda(a_2x+b_2y+c_2)=0$  Activity 6 To verify that the graph of given inequality by $5x+4y-40<0$ of the form $ax+by+c<0$ $a,b>0$ and
		10	<b>Unit – II: Algebra</b> <b>Linear inequalities</b> Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line.	
		10	<b>Binomial Theorem</b>	

MONTH	NOOFDAYS	NOOFPERIODS	Main Topic and Sub-Topics to be Covered	Activities/Projects/Practical Experiments to be Held/Specific Assessment Tool(s) (Suggested)	
			Historical perspective, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle, simple applications..	c<0 Activity:7 To construct a Pascal triangle and to write binomial expansion for a given positive integral	
DECEMBER 2024	17	10  25	<b>Unit – III: Coordinate Geometry</b> <b>Introduction to 3D geometry</b> Coordinate axes and Coordinate planes in three dimensions. Coordinates of a point. Distance between two points <b>Conic Sections</b> Sections of a cone: Circles, ellipse, parabola and hyperbola. A point, a straight line and a pair of intersecting lines as a degenerated case of conic section. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle.	Activity8: To explain the concept of octants by 3 mutually perpendicular planes in space  Activity 9: To construct different types of conic sections	UNIT TEST-3 (12-12-24 TO 14-12-24)
JANUARY 2025	15	20	<b>UNIT-IV CALCULUS (continue)</b> Definition of derivative relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric function		



MONTH	NOOFDAYS	NOOFPERIODS	Main Topic and Sub-Topics to be Covered	Activities/Projects/Practical Experiments to be Held/Specific Assessment Tool(s) (Suggested)	
FEBRUARY 2025	21	20	<b>Probability</b> Events: occurrence of events, 'not', 'and' and 'or' events. Exhaustive events, mutually exclusive events. Axiomatic approach to probability. Probability of an event. addition formula and probability of complement of an event	Activity 10: To write the sample space when coin is tossed one time, two times , three times and four times.	UNIT TEST -4 (06-02-24 TO 08-02-24)
MARCH 2025			Revision ANNUAL EXAMINATION		

**Prescribed Books:**

- ) Mathematics Textbook for Class XI, NCERT Publication
- ) Mathematics Exemplar Problem for Class XI, Published by NCERT
- ) Mathematics Lab Manual class XI, published by NCERT  
<http://www.ncert.nic.in/exemplar/labmanuals.html>

**Note:**

*The activities listed above are suggestive only. Teachers are advised to refer the Lab Manual for class XI, published by CBSE. Throughout the year any 10 activities shall be performed by the student from the activities given in the Lab Manual.*

**NAVODAYA VIDYALAYA SAMITI**

**CLASS: XI**

**SUBJECT:PHYSICS**

<b>Unit No</b>	<b>Name of the Chapter / Unit</b>	<b>No. of Periods</b>	<b>Marks</b>	
<b>Unit-I</b>	<b>Physical World and Measurement</b>	<b>08</b>	<b>23</b>	
	Chapter-2: Units and Measurements			
<b>Unit-II</b>	<b>Kinematics</b>	<b>24</b>		
	Chapter-3: Motion in a Straight Line			
	Chapter-4: Motion in a Plane			
<b>Unit-III</b>	<b>Laws of Motion</b>	<b>14</b>		
	Chapter-5: Laws of Motion			
<b>Unit-IV</b>	<b>Work, Energy and Power</b>	<b>14</b>		<b>17</b>
	Chapter-6: Work, Energy and Power			
<b>Unit-V</b>	<b>Motion of System of Particles and Rigid Body</b>	<b>18</b>		
	Chapter-7: System of Particles and Rotational Motion			
<b>Unit-VI</b>	<b>Gravitation</b>	<b>12</b>		
	Chapter-8: Gravitation			
<b>Unit-VII</b>	<b>Properties of Bulk Matter</b>	<b>24</b>		
	Chapter-9: Mechanical Properties of Solids			
	Chapter-10: Mechanical Properties of Fluids			
	Chapter-11: Thermal Properties of Matter	<b>12</b>		
<b>Unit-VIII</b>	<b>Thermodynamics</b>			
	Chapter-12: Thermodynamics	<b>08</b>		
<b>Unit-IX</b>	<b>Behaviour of Perfect Gases and Kinetic Theory of Gases</b>			
	Chapter-13: Kinetic Theory	<b>26</b>	<b>10</b>	
<b>Unit-X</b>	<b>Oscillations and Waves</b>			
	Chapter-14: Oscillations			
	Chapter-15: Waves	<b>160</b>	<b>70</b>	
	<b>Total</b>			

Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/Chapter	Units/Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/ Projects to be given	Unit Tests /Formative Tests/ Assignment
APRIL 2024	24	24		<p><b>Units and Measurements:</b> Need for measurement, systems of units; SI units, fundamental and derived units. Mathematical tools-basic concepts of algebra, trigonometry, calculus for understanding concepts in Physics. Significant figures. Dimensions of physical quantities, dimensional analysis and its applications.</p> <p><b>Motion in a Straight Line:</b>Frame of reference, Motion in a straight line, Elementary concepts of differentiation and integration for describing motion, uniform and non- uniform motion, and instantaneous velocity, uniformly accelerated motion, Motion in a Straight Line: velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment).</p>	<p><b>Experiments: 1</b> (Measure the diameter of a small spherical/cylindrical body and to calculate its volume using Vernier callipers)</p> <p><b>Activity:1</b> (Make a paper scale of given least count 0.2cm, 0.5 cm)</p>	<b>Unit test-1 Assignment- 1</b> (Based on Mechanics )
JULY 2024	24	24	23	<p><b>Motion in a Plane:</b> Scalar and vector quantities; position and displacement vectors, general vectors and their notations; equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors, Unit vector; resolution of a vector in a plane, rectangular components, Scalar and Vector product of vectors.</p> <p>Motion in a plane, cases of uniform velocity and uniform acceleration-projectile motion, uniform circular motion.</p>	<p><b>Activity:2</b> (By the principle of moments ,find out the mass of a given body )</p>	

Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/Chapter	Units/Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/ Projects to be given	Unit Tests /Formative Tests/ Assignment
AUGUST 2024	25	06 14 08	17	<p>Laws of Motion Intuitive concept of force, Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications.</p> <p>Equilibrium of concurrent forces, Static and kinetic friction, laws of friction, rolling friction, lubrication.</p> <p>Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road).</p> <p><b>Work, Energy and Power :</b> Work done by a constant force and a variable force; kinetic energy, work energy theorem. Power. Notion of potential energy, potential energy of a spring.</p>	<p><b>Experiments: 2&amp;3</b> 2.Measure the diameter of a given wire and thickness of a given sheet using Screw gauge 3.Using simple pendulum plot L-T<sup>2</sup> graph and use it to find out the effective length of Second's pendulum</p> <p><b>Activity: 3</b> ( 3.Study the variation in range of a projectile with angle of projection.</p>	<p><b>Assignment-2</b> (Based on projectile motion and Newton's Laws of motion)</p> <p><b>Unit Test-2</b></p>
SEPTEMBER 2024	24	6 18		<p>Conservative forces: non-conservative forces, motion in a vertical circle; elastic and inelastic collisions in one and two Dimensions</p> <p>System of Particles and Rotational Motion: Centre of mass of a two-particle system, momentum conservation and Centre of mass motion. Centre of mass of a rigid body; centre of mass of a uniform rod. Moment of a force, torque, angular momentum, law of conservation of angular momentum and its applications.</p> <p>Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions. Moment of inertia, radius of gyration, values of moments of inertia for simple geometrical objects (no derivation).</p>	<p><b>Experiments: 4&amp;5</b> 4. To find out the weight of a given body using parallelogram law of vectors 5. Find the force constant of a helical spring by plotting a graph between load and extension</p> <p><b>Activity: 4</b> Observe change of state and plot a cooling curve for molten wax</p>	<p><b>Assignment -3</b> (Based on work – energy- power and System of Particles and Rotational Motion )</p>

Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/Chapter	Units/Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/ Projects to be given	Unit Tests /Formative Tests/ Assignment
				<b>Term Test-1</b> (up to syllabus covered till 20 <sup>th</sup> September 2024)		
OCTOBER 2024	10	12		<p>Gravitation: Kepler's laws of planetary motion, universal law of gravitation.</p> <p>Acceleration due to gravity and its variation with altitude and depth.</p> <p>Gravitational potential energy and gravitational potential, escape velocity, orbital velocity of a satellite.</p>	<p><b>Experiment: 6 &amp; 7</b> (6 Determine the surface tension of liquid by capillary rise method 7. Study the relation between frequency and length of a given wire under constant tension using sonometer <b>Activities: 5</b> (5. Study the factors affecting the rate of loss of heat of a liquid)</p>	
NOVEMBER 2024	15	18	20	<p><b>Mechanical Properties of Solids:</b> Elasticity, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity (qualitative idea only), Poisson's ratio; elastic energy.</p> <p><b>Mechanical Properties of Fluids:</b> Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure. Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its simple applications.</p> <p>Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to drops, bubbles and capillary rise.</p>	<p><b>Experiment: 8</b> Find the speed of sound in air at room temperature using a resonance tube at two resonance positions <b>Activity 6</b> Study the effect of load on depression of a suitably clamped meter scale loaded at its 1) ends 2) Its middle</p>	<b>Assignment -4</b> Based on properties of matter

Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/Chapter	Units/Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/ Projects to be given	Unit Tests /Formative Tests/ Assignment
DECEMBER 2024	24	06  12  08		<p><b>Thermal Properties of Matter:</b> Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; Cp, Cv - calorimetry; change of state - latent heat capacity.</p> <p><b>Thermal Properties of Matter:</b> Heat transfer-conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law.</p> <p><b>Thermodynamics:</b> Thermal equilibrium and definition of temperature zeroth law of thermodynamics, heat, work and internal energy. First law of thermodynamics, Second law of thermodynamics: gaseous state of matter, change of condition of gaseous state -isothermal, adiabatic, reversible, irreversible, and cyclic processes.</p> <p><b>Kinetic Theory:</b> Equation of state of a perfect gas, work done in compressing a gas. Kinetic theory of gases - assumptions, concept of pressure. Kinetic interpretation of temperature; rms speed of gas molecules; degrees of freedom, law of equi-partition of energy (statement only) and application to specific heat capacities of gases; concept of mean free path, Avogadro's number.</p>	<p><b>Project: 1</b> From the list provided by CBSE</p> <p>Completion of left over practical</p>	Unit Test-3
JANUARY 2025	20	26	10	<p><b>Oscillations:</b> Periodic motion - time period, frequency, displacement as a function of time, periodic functions and their application. longitudinal waves, speed of travelling wave, displacement relation for a progressive wave, principle of superposition of waves.</p> <p><b>Waves:</b> reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats.</p>	Completion of left over practicals, Activities & project.	
FEBRUARY	25	30		Revision		Unit Test-4

Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/Chapter	Units/Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/ Projects to be given	Unit Tests /Formative Tests/ Assignment
March 2025				<b>Practical Exam, Revision &amp; Term-II Examination</b>		

### PRACTICALS

Total Periods :

The record, to be submitted by the students, at the time of their annual examination, has to include: Record of at least Experiments [with 4 from each section], to be performed by the students.

Record of at least 6 Activities [with 3 each from section A and section B], to be performed by the students, Report on the project carried out by the students

#### EVALUATION SCHEME

Time 3 hours

MAX.MARKS: 30

Two experiments one from each section	7+7 Marks
Practical record [experiments and activities]	5 Marks
One activity from any section	3 Marks
Investigatory Project	3 Marks
Viva on experiments, activities and project	5 Marks
<b>Total</b>	<b>30 marks</b>

### SECTION – A

Experiments

- a. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Calipers and hence find its volume.
- b. To measure diameter of a given wire and thickness of a given sheet using screw gauge.
- c. To determine volume of an irregular lamina using screw gauge.
- d. To determine radius of curvature of a given spherical surface by a spherometer.
- e. To determine the mass of two different objects using a beam balance.
- f. To find the weight of a given body using parallelogram law of vectors.
- g. Using a simple pendulum, plot its L-T<sup>2</sup> graph and use it to find the effective length of second's pendulum.
- h. To study variation of time period of a simple pendulum of a given length by taking bobs of same size but different masses and interpret the result.

- i. To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and a horizontal surface.
- j. To find the downward force, along an inclined plane, acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination  $\theta$  by plotting graph between force and  $\sin \theta$ .

#### Activities

1. To make a paper scale of given least count, e.g., 0.2cm, 0.5 cm.
2. To determine mass of a given body using a metre scale by principle of moments.
3. To plot a graph for a given set of data, with proper choice of scales and error bars.
4. To measure the force of limiting friction for rolling of a roller on a horizontal plane.
5. To study the variation in range of a projectile with angle of projection.
6. To study the conservation of energy of a ball rolling down on an inclined plane (using a double inclined plane).
7. To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time.

### SECTION-B

#### Experiments

2. To determine Young's modulus of elasticity of the material of a given wire.
3. To find the force constant of a helical spring by plotting a graph between load and extension.
4. To study the variation in volume with pressure for a sample of air at constant temperature by plotting graphs between P and V, and between P and 1/V.
5. To determine the surface tension of water by capillary rise method.
6. To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of given spherical body.
7. To study the relationship between the temperature of a hot body and time by plotting a cooling curve.
8. To determine specific heat capacity of a given solid by method of mixtures.
9. To study the relation between frequency and length of a given wire under constant tension using sonometer.
10. To study the relation between the length of a given wire and tension for constant frequency using sonometer.
11. To find the speed of sound in air at room temperature using a resonance tube by two resonance positions

#### Activities

1. To observe change of state and plot a cooling curve for molten wax. To observe and explain the effect of heating on a bi-metallic strip.
2. To note the change in level of liquid in a container on heating and interpret the observations.
3. To study the effect of detergent on surface tension of water by observing capillary rise. To study the factors affecting the rate of loss of heat of a liquid.
4. To study the effect of load on depression of a suitably clamped metre scale loaded at (i) its end (ii) in the middle.
5. To observe the decrease in pressure with increase in velocity of a fluid.



Note: Same Evaluation scheme and general guidelines for visually impaired students as given for Class XII may be followed

- Items for Identification/ familiarity with the apparatus for assessment in practical(Allexperiments)

Spherical ball, Cylindrical objects, vernier calipers, beaker, calorimeter, Screw gauge, wire, Beam balance, spring balance, weight box, gram and milligram weights, forceps, Parallelogram law of vectors apparatus, pulleys and pans used in the same 'weights' used, Bob and string used in a simple pendulum, meter scale, split cork, suspension arrangement, stop clock/stop watch, Helical spring, suspension arrangement use weights, arrangement used for measuring extension, Sonometer, Wedges, pan and pulley used in it, 'weight', Tuning Fork, Meter scale, Beam balance, Weight box, gram and milligram weights, forceps, Resonance Tube, Tuning Fork, Meter scale, Flask/Beaker used for adding water.

- List of Practicals
- To measure diameter of a small spherical/cylindrical body using vernier calipers.
- To measure the internal diameter and depth of a given beaker/calorimeter using vernier calipers and hence find its volume.
- To measure diameter of given wire using screw gauge.
- To measure thickness of a given sheet using screw gauge.
- To determine the mass of a given object using a beam balance.
- To find the weight of given body using the parallelogram law of vectors.
- Using a simple pendulum plot  $L-T$  and  $L-T^2$  graphs. Hence find the effective length of second pendulum using appropriate length values.
- To find the force constant of given helical spring by plotting a graph between load and extension
- To study the relation between frequency and length of a given wire under constant tension using sonometer.
- To study the relation between the length of a given wire and tension, for constant frequency, using sonometer.
- To find the speed of sound in air, at room temperature, using a resonance tube, by observing the various resonance positions.

Note: The above practicals may be carried out in an experiential manner rather than recording observations.

Note: The content indicated in NCERT textbooks as excluded for the year 2024-25 is not to be tested by schools.

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NAVODAYA VIDYALAYA SAMITI

CLASS: XI

SUBJECT: Chemistry

Unit No	Name of The Chapter/ unit	Marks	Periods
1	Some Basic Concepts of Chemistry	7	18
2	Structure of Atom	9	20
3	Classification of Elements and Periodicity in Properties	6	12
4	Chemical Bonding and Molecular Structure	7	20
5	Chemical Thermodynamics	9	23
6	Equilibrium	7	20
7	Redox Reactions	4	9
8	Organic Chemistry: Some basic Principles and Technique	11	20
9	Hydrocarbons	10	18
	Total	70	160
	Practical Assessment	30	--
	Grand Total	100	--

**PRACTICALS**

Time Allowed: 03 Hours

Max.Marks:30

Evaluation Scheme	Marks
I. Volumetric Analysis	08 Marks
II. Salt Analysis	08 Marks
III. Content based experiment	06 Marks
IV. Record + Viva	04 Marks
V. Project + Viva	04 Marks
<b>Total</b>	<b>30 Marks</b>



JULY	24	13 + 06	<p><b>06</b></p> <p>concept of shells and subshells, dual nature of matter and light, de Broglie's relationship, Heisenberg uncertainty principle, concept of orbitals, quantum numbers, shape of s, p and d orbitals, Rules for filling electrons in orbitals – Aufbau principle, Pauli's exclusion principle and Hund's rule, electronic configuration of atoms, stability of half-filled and completely filled orbitals.</p> <p><b>03</b></p> <p><b>Unit 3: Classification of elements and periodicity in properties (12 Periods)</b></p> <p>Significance of classification, brief history of the development of periodic table. Modern periodic law and the present form of periodic table,</p>	<ul style="list-style-type: none"> <li>• <b>Characterization and Purification of Chemical Substance</b></li> <li>• Crystallization of an impure sample of any one of the following: alum, copper Sulphate, benzoic acid.</li> <li>• Determination of melting point of an organic Compound.</li> <li>• Determination of Boiling point of an organic compound</li> <li>• Determination of strength of a given solution of sodium hydroxide by titrating it against standard solution of oxalic acid</li> </ul>	
AUGUST	27	06+ 20	<p><b>03</b></p> <p>Periodic trends in properties of elements –atomic radii, ionic radii, ionization enthalpy, electron gain enthalpy, electro negativity, valency, Nomenclature of elements with atomic number greater than 100.</p> <p><b>Unit 4: Chemical bonding and molecular structure (20 Periods)</b></p> <p>Valence electrons, ionic bond, covalent bond: bond parameters, Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization, involving s, p and d orbital and shapes of some simple molecules, molecular orbital theory of homo nuclear diatomic molecules (Qualitative idea only), hydrogen bond.</p> <p><b>07</b></p>	<ul style="list-style-type: none"> <li>• Determination of strength of a given solution of hydrochloric acid by titrating it against standard solution of sodium carbonate.</li> </ul>	<b>UNIT TEST -II 8-10 AUGUST- 2024</b>

<p style="text-align: center;">SEPTEMBER</p>	<p style="text-align: center;">24</p>	<p style="text-align: center;">23</p>	<p style="text-align: center;"><b>09</b></p> <p><b>Unit: 5 Thermodynamics (23 Periods)</b>                  Concept of System and types of system, surrounding, work, heat, energy, extensive and intensive properties, state functions. First law of thermodynamics -internal energy and enthalpy, heat capacity and specific heat, measurement of <math>\Delta U</math> and <math>\Delta H</math>, Hess's law of constant heat summation, enthalpies of bond dissociation, combustion, formation, atomization, sublimation, phase transformation, ionization and solution and dilution. Second Law of Thermodynamics. Introduction of entropy as a state function, free energy change for spontaneous and non - spontaneous process criteria forequilibrium.                  Third law of Thermodynamics (brief introduction)</p>	<ul style="list-style-type: none"> <li>• Enthalpy of dissolutions of copper sulphate or potassium nitrate.</li> <li>• Enthalpy of neutralization of strong acid (HCl) and strong base (NaOH)</li> </ul> <p>a)</p>	<p style="text-align: center;"><b>REVISION AND TERM TEST-I</b></p> <p style="text-align: center;"><b>23 Sep -04 OCTOBER 2024</b></p>
<p style="text-align: center;">OCTOBER</p>	<p style="text-align: center;">21</p>	<p style="text-align: center;">10</p>	<p style="text-align: center;"><b>04</b></p> <p><b>Unit 6 Equilibrium (20 Periods)</b>                  Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium - Le Chatelier's principle, ionic equilibrium - ionization of acids and bases,</p>	<ul style="list-style-type: none"> <li>• <b>Any one of the following experiments: Experiments based on pH (04 Periods)</b>                      Determination of pH of some solutions obtained from fruit juices, varied concentrations of acids, bases and salts using pH paper or universal indicator.                      (ii) Comparing the pH of solutions of strong and weak acid of same concentration                      (iii) Study the pH change by common-ion in case of weak acids and weak bases.</li> </ul>	

NOVEMBER	15	10+ 05	<p><b>03</b></p> <p>strong and weak electrolytes, degree of ionization, concept of pH, hydrolysis of salts (elementary idea), buffer solution, solubility product, common ion effect (With illustrative examples).</p> <p><b>Unit 7: Redox Reactions (9 Periods)</b></p> <p>Concept of oxidation and reduction, Redox reactions, oxidation number,</p> <p><b>02</b></p>	<ul style="list-style-type: none"> <li><b>Salt Analysis</b> (Insoluble salts should be avoided; Sufficient number of single salts should be given for analysis so that at least one cation from each group and important anions are covered)</li> <li><b>Cations-</b> Pb<sup>2+</sup>, Cu<sup>2+</sup>, As<sup>3+</sup>, Al<sup>3+</sup>, Fe<sup>3+</sup>, Mn<sup>2+</sup>, Ni<sup>2+</sup>, Zn<sup>2+</sup>, Co<sup>2+</sup>, Ca<sup>2+</sup>, Sr<sup>2+</sup>, Ba<sup>2+</sup>, Mg<sup>2+</sup>, NH<sub>4</sub><sup>+</sup></li> <li><b>Anions-</b> CO<sub>3</sub><sup>2-</sup>, S<sup>2-</sup>, SO<sub>3</sub><sup>2-</sup>, SO<sub>4</sub><sup>2-</sup>, NO<sub>3</sub><sup>-</sup>, Cl<sup>-</sup>, Br<sup>-</sup>, I<sup>-</sup>, PO<sub>4</sub><sup>3-</sup>, C<sub>2</sub>O<sub>4</sub><sup>2-</sup>, CH<sub>3</sub>COO<sup>-</sup></li> </ul>	
DECEMBER	24	04 + 10	<p><b>02</b></p> <p>balancing redox reactions, application of redox reactions</p> <p><b>06</b></p> <p><b>Unit 8: Organic Chemistry - Some Basic Principles and Technique (20 Periods)</b></p> <p>General introduction, methods of qualitative and quantitative analysis, classification and IUPAC nomenclature of organic compounds.</p>	<ul style="list-style-type: none"> <li><b>Determination of Nitrogen, Sulphur, Chlorine in organic compounds</b></li> </ul>	<p><b>UNIT TEST III</b> 12-14 DECEMBER 2024</p>
JANUARY	25	10 +06	<p><b>05</b></p> <p>Electronic displacements in a covalent bond: inductive effect, electromeric effect, resonance and hyper conjugation. Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions, electrophiles and nucleophiles.</p> <p>types of organic reactions.</p> <p><b>02</b></p> <p><b>Unit 9: Hydrocarbons (18 Periods)</b></p> <p><b>Classification of Hydrocarbons Alkanes</b></p> <p>- Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions including free radical mechanism of halogenation combustion and pyrolysis.</p>	<p><b>Few investigatory projects</b></p> <ol style="list-style-type: none"> <li>Study the Methods of Purification of Water.</li> <li>Investigation of foaming capacity of different washing soaps and the effect of addition sodium carbonate.</li> </ol>	

FEBRUARY	24	12	08	<p><b>Alkenes</b> - Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation, chemical reactions addition of hydrogen, halogen, water, hydrogen halides (Markonikov's addition and peroxide effect), ozonolysis, mechanism of electrophilic addition. <b>Alkynes</b> - Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions: acidic character of alkynes, addition reaction with hydrogen, Halogens, hydrogen halides and water.</p> <p><b>Aromatic Hydrocarbons:</b> Introduction IUPAC nomenclature, benzene resonance, aromaticity, chemical reactions: nitration sulphonation, halogenation, Friedel Craft's alkylation and acylation, mechanism of electrophilic substitution. Directive influence of a substituent in mono-substituted benzene, carcinogenicity and toxicity.</p>	<p>3. Study the acidity of different samples of tea leaves 4. Determination of the rate of evaporation of different liquids. 5. Study the effect of acids and bases on the tensile strength of fibre.</p> <p>-----</p>	<p><b>UNIT TEST IV</b> <b>06-08</b> <b>FEBRUARY</b> <b>2025</b></p>
				<b>REVISION AND PRACTICAL EXAMINATION</b>		
MARCH	20	----	----	<p><b>Annual Examinations</b></p> <p>-----</p>	<p><b>Annual examinations</b> <b>17-28 March</b> <b>2025</b></p>	

NAVODAYA VIDYALAYASAMITI

CLASS: XI (SCI)

SUBJECT: BIOLOGY

SUBJECT CODE: 044

Unit No	Name of the Chapter/Unit	Marks	Periods
I	Diversity of Living Organisms	15	23
II	Structural Organisation in Plants and Animals	10	23
III	Cell: Structure and Function	15	34
IV	Plant Physiology	12	40
V	Human Physiology	18	40
	<b>Total</b>	<b>70</b>	<b>160</b>
	<b>Practical</b>	<b>30</b>	
	<b>Grand Total</b>	<b>100</b>	

PRACTICALS

Time Allowed : Three Hours

Max.

Marks: 30

Evaluation Scheme		Marks
One Major Experiment Part A (Experiment No-1,3,7,8)		5 Marks
One Minor Experiment Part A (Experiment No-6,9,10,11,12,13)		4 Marks
Slide Preparation Part A (Experiment No-2,4,5)		5 Marks
Spotting Part B		7 Marks
Practical Record + Viva Voce	<b>Credit to the students' work 4 Marks over the academic session may be given</b>	4 Marks
Project Record + Viva Voce		5 Marks
<b>Total</b>		<b>30 Marks</b>



MONTH	NOOF DAYS	NOOF PERIODS	Main Topic and Sub-Topics to be Covered	Activities/Projects/ Practical Experimentstobe Held
APRIL-2024	21	21+9 =30	<p><b>Unit-I Diversity of Living Organisms</b>  <b>Chapter-1: The Living World</b> Biodiversity; Need for classification; three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial nomenclature.  <b>Chapter-2: Biological Classification</b>                      Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups: Lichens, Viruses and Viroids.</p> <p>26 April to 29 April 2024 UT -1</p>	<p><b><u>Spotting:</u></b></p> <ol style="list-style-type: none"> <li>1. Study of the parts of a compound microscope.</li> <li>2. Study of the specimens/slides/models and identification with reasons- Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort.</li> </ol>
JULY 2024	25	25+12=37	<p><b>Chapter-3: Plant Kingdom</b>                      Salient features and classification of plants into major groups - Algae, Bryophyta, Pteridophyta, Gymnospermae.</p> <p><b>Chapter-4: Animal Kingdom</b>                      Salient features and classification of animals, non-chordates up to phyla level and chordates up to class level (three to five salient features and at least two examples of each category). (No live animals or specimen should be displayed.)</p>	<p>Study of the specimens/slides/models and identification with reasons- Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen.</p> <p>Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liver fluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.</p>

<p>August- 2024</p>	<p>25</p>	<p>25+12=37</p>	<p><b>Unit-II Structural Organization in Animals and Plants</b>  <b>Chapter-5: Morphology of Flowering Plants</b>                  Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed. Description of family Solanaceae.</p> <p><b>Chapter-6: Anatomy of Flowering Plants:</b>                  Anatomy and functions of tissue systems in dicots and monocots.</p>	<p><b>Spotting:</b>                  4. Study and identification of different types of inflorescence (cymose and racemose).  <b>Experiment:</b>                  1. Study and describe locally available common flowering plants, from family Solanaceae (Poaceae, Asteraceae or Brassicaceae can be substituted) including dissection and display of floral whorls, anther, and ovary to show the number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound).                  Preparation and study of T.S. of dicot and monocot roots and stems (primary).</p>
<b>UT-2</b>				
<p>September-2024</p>	<p>18</p>	<p>18+7=25</p>	<p><b>Chapter-7: Structural Organisation in Animals</b>                  Morphology, anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of frog.</p> <p><b>Chapter-8: Cell - The Unit of Life</b>                  Cell theory and cell as the basic unit of life: Structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; cell envelope; cell membrane, cell wall; cell organelles - structure and function; endomembrane system, endoplasmic reticulum, golgi bodies, lysosomes, vacuoles; mitochondria, ribosomes, plastids, microbodies; cytoskeleton, cilia, flagella, centrioles (ultrastructure and function); nucleus.</p>	<p><b>Experiment</b>                  3. Study of osmosis by potato osmometer.                  4. Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or flash scale leaves of onion bulb).                  Study of distribution of stomata in the upper and lower surface of leaves</p>
<p>October -2024</p>	<p>22</p>	<p>22+9=</p>	<p><b>Chapter-9: BioMolecules</b>                  Chemical constituents of living cells: bio molecules, structure and</p>	<p><b>Experiment:</b>                  6. Test for the presence of sugar, starch, proteins and fats. Detection</p>

		31	function of proteins, carbohydrates, lipids, nucleic acids; Enzyme types, properties, enzyme action	in suitable plant and animal materials.
			<b>Term-I 23 Sept.-4 Oct</b>	
November-2024	20	20+6=26	<p><b>Chapter-10: Cell Cycle and Cell Division</b> Cell cycle, mitosis, meiosis and their significance</p> <p><b>Unit-IV Plant Physiology</b></p> <p><b>Chapter-13: Photosynthesis in Higher Plants</b> Photosynthesis as a means of autotrophic nutrition; site of photosynthesis, pigments involved in photosynthesis (elementary idea); photochemical and biosynthetic phases of photosynthesis; cyclic and non-cyclic photophosphorylation; chemiosmotic hypothesis; photorespiration; C<sub>3</sub> and C<sub>4</sub> pathways; Factors affecting photosynthesis.</p>	<p><b>Spotting:</b></p> <p>cc) Study of mitosis in onion root tip cells and animal cells (grasshopper) from permanent slides.</p> <p><b>Experiment:</b></p> <p>7. Comparative study of the rates of transpiration in the upper and lower surface of leaves. 8. Separation of plant pigments through paper chromatography.</p>
December-2024	20	20+9= 29	<p><b>Chapter-14: Respiration in Plants</b> Exchange of gases; cellular respiration - glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic); energy relations - number of ATP molecules generated; amphibolic pathways; respiratory quotient.</p> <p><b>Chapter-15: Plant - Growth and Development</b> Seed germination; phases of plant growth and plant growth rate; conditions of growth; differentiation, dedifferentiation and redifferentiation; sequence of developmental processes in a plant cell; growth regulators - auxin, gibberlin, cytokinin, ethylene, ABA.</p> <p><b>Unit-V Human Physiology</b></p> <p><b>Chapter-17: Breathing and Exchange of Gases</b> Respiratory organs in animals (recall only); Respiratory system in</p>	<p><b>Experiment:</b></p> <p>9. Study of the rate of respiration in flower buds / leaf tissue and germinating seeds</p>

			humans; Mechanism of breathing and its regulation in humans - exchange of gases, transport of gases and regulation of respiration, respiratory volume; disorders related to respiration - asthma, emphysema, occupational respiratory disorders	
			<b>PWT3 /UT 312-14 Dec 2024</b>	
<b>January-2025</b>	12	12+ 6= 18	<p><b>Unit-V Human Physiology</b></p> <p><b>Chapter-18: Body Fluids and Circulation</b></p> <p>Composition of blood, blood groups, coagulation of blood; composition of lymph and its function; human circulatory system - Structure of human heart and blood vessels; cardiac cycle, cardiac output, ECG; double circulation; regulation of cardiac activity; disorders of circulatory system - hypertension, coronary artery disease, angina pectoris, heart failure.</p> <p><b>Chapter-19: Excretory Products and their Elimination</b></p> <p><b>Chapter-20: Locomotion and Movement</b></p>	<p><b><u>Experiment:</u></b></p> <p>10. Test for presence of urea in urine. 11. Test for presence of sugar in urine. 12. Test for presence of albumin in urine. Test for presence of bile salts in urine.</p> <p><b><u>Spotting:</u></b></p> <p>6. Study of human skeleton and different types of joints.</p>
<b>February-2025</b>	15	15+6 = 21	<p><b>Chapter-21: Neural Control and Coordination</b></p> <p>Neuron and nerves; Nervous system in humans - central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse.</p> <p><b>Chapter-22: Chemical Coordination and Integration</b></p> <p>Endocrine glands and hormones; human endocrine system - hypothalamus, pituitary, pineal, thyroid, parathyroid, adrenal, pancreas, gonads; mechanism of hormone action (elementary idea); role of hormones as messengers and</p>	

		<p>regulators,hypo - and hyperactivity and relateddisorders, dwarfism, acromegaly,cretinism, goiter, exophthalmic goiter,diabetes,Addison's disease.  <b>Note:</b> Diseases related to all the humanphysiological systems to be taught inbrief.</p>	
		<b>PWT 4/ UT 4      06-08FEBRUARY</b>	
<b>March-2025</b>		<b>TERMII ANNUAL EXAM</b>	

NAVODAYA VIDYALAYA SAMITI,

**CLASS: XI**

**SUBJECT: HISTORY**

**SUBJECT CODE: 027**

Unit No.	Name of The Chapter/ unit	Marks	Periods
INTRODUCTION	Introduction to World History		4
Section-I	Early Societies		
	Introduction		4
2	Writing and City Life	10	20
Section-II	Empires		
	Introduction		4
3	An empire across three continents	10	20
5	Nomadic Empires	10	20
Section-III	Changing Traditions		
	Introduction		4
6	The Three Orders	10	20
7	Changing Cultural Traditions	10	20
Section-IV	Paths to Modernization		
	Introduction		4
10	Displacing Indigenous People	10	25
11	Paths To Modernization	15	25
	Map work of the Related Themes	5	15
	Total	80	185
	Internal Assessment	20	25
	Grand Total	100	210

MONTH	NUMBER OF DAYS	NUMBER OF PERIODS	Main Topic and Sub-Topics:	Activities/Projects/ Practical Experiments to be held/ Specific Assessment Tool(s) (Suggested)
APRIL 2024	22	32	Introduction to World History	A discussion on early human life and changes occurred in it.
			Introduction of Early Societies	
			Writing and City Life Focus: Iraq, 3rd millennium BCE 1. Growth of towns 2. Nature of early urban societies 3. Historians' Debate on uses of writing	"Written quiz" on the significance of writing.  Announcement /selection of topic for project work.
<b>UNIT TEST-Ist (26-29 April 2024)</b>				
JULY 2024	26	38	Introduction of Empires  <b>An empire across three continents</b>  Focus: Roman Empire, 27 BCE to 600 CE	Prepare a short note on the role of slavery as a significant element in the economy of Roman empire.
AUG. 2024	22	a) Political evolution  b) Economic Expansion  Religion-culture foundation Late Antiquity Historians' view on the Institution of Slavery		

		32	<p><b>Nomadic Empires (Up to page No. 113)</b></p> <p>Focus: The Mongol, 13th to 14th century                      The nature of nomadism                      Formation of empires                      Conquests and relations with other states                      Historians' views on nomadic societies and state formation</p>	<p>How can we understand Genghis Khan as an "Oceanic ruler"</p> <p><b>Project work:</b>                      Collection of data                      Preparation of project</p>
<b>UNIT TEST-2<sup>nd</sup> (08-10 Aug 2024)</b>				
SEP. 2024	17	26	<p><b>The Three Orders</b>                      Focus: Western Europe 13th - 16th century                      a) Feudal society and economy</p>	<p>What similarities do you find between the conditions of life for a French serf and a Roman slave</p>
			<p>Formation of state                      Church and society                      Historians' views on decline of feudalism</p>	<p><b>Project work:</b>                      Analysis of the data                      Map Work -Location and labelling on the maps based on the given chapters.</p>
<b>Mid Term 23 Sep. to 04 Oct. 2024</b>				
OCT2024	18	27	<ul style="list-style-type: none"> <li>• Introduction of Changing Traditions</li> <li>• <b>Changing Cultural Traditions</b> Focus: Europe 14th -17th century a) New ideas and new trends in literature and arts</li> <li>• Relationship with earlier ideas</li> </ul>	<p>A project on European Renaissance                      Completion of the project work.</p>
NOV 2024	20	30	<ul style="list-style-type: none"> <li>• The contribution of West Asia</li> <li>• Historians' viewpoint on the validity of the notion 'European Renaissance</li> <li>• Introduction to Paths of Modernization</li> </ul>	<p>A project on European Renaissance                      Completion of the project work</p>



DEC. 2024	17	26	<b>Displacing Indigenous People</b> Focus: North America and Australia, 18th to 20th century a) European colonists in North America and Australia b) Formation of White Settler societies Displacement and repression of local people Historians' viewpoint on the impact of European settlement on indigenous population	Compare and contrast the 10 political situations of the native people of India and Australia during the first quarter of 20 <sup>th</sup> century. Map based on the Theme: Displacing Indigenous People
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**UNIT TEST-III 12 Dec.2024 to 14 Dec.2024**

AN. 2025	12	18	<b>Paths To Modernization</b> Focus: East Asia, late 19th to 20th century Militarization and economic growth in Japan. China and the communist alternative	Discuss about opium wars and occupation of Hong Kong by Britain.
FEB 2025	20	28	Historians' Debate on the meaning of modernization	Map based on the Theme: Paths to Modernization

**Unit Test-4 06 Feb.2025 to 08 Feb.2025**

March 2025	<b>Revision</b>			
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**TERM END EXAMS (17-28 MARCH 2025)**

**\*The learning objectives and learning outcomes of each theme must be followed as per the CBSE class XI course structure (2024-25).**

NAVODAYA VIDYALAYA SAMITI

CLASS: XI

SUBJECT: GEOGRAPHY

SUB.CODE: 029

Sl. No.	NAME OF THE TEXTBOOKS/ UNITS/CHAPTERS	ALLOTTED MARKS	NUMBER OF PERIODS
1	Fundamentals of Physical Geography	30	85
2	India- Physical Environment	30	85
3	Practical Work in Geography – Part I	25+3+2= 30	40
4	Map Work from Fundamentals of Physical Geography	5	5
5	Map work from India –Physical Environment	5	5
	Total	100 Marks	220

Month	No. of days	No. of Periods	Main topic and subtopics to be covered	Activities/projects/practical
APRIL 2024	22	32	<p><b><u>Fundamentals of Physical Geography.</u></b>  <b><u>Unit 1</u></b>                      1 Geography as a Discipline  <b><u>Unit II</u></b>                      2The Origin and Evolution of the Earth</p> <p><b><u>India – Physical Environment.</u></b>  <b><u>Unit 1</u></b>                      1 India — Location</p> <p><b>PWT/UT 1<sup>st</sup> (26-29 April 2024)</b></p>	<p>Practical work in  <u>Geography</u>                      Introduction to Maps                      Activities</p>

Month	No. of days	No. of Periods	Main topic and subtopics to be covered	Activities/projects/practical
JULY 2024 155 Number of Periods June Chapter 3 & 4 - Migration and Human Development deleted	26 Days	38 Periods	<p><b><u>Fundamentals of Physical Geography.</u></b>  <b><u>Unit II</u></b>                      3 Interior of the Earth                      4 Distribution of Oceans and Continents</p> <p><b><u>India – Physical Environment.</u></b>  <b><u>Unit II</u></b>                      2 Structure and Physiography</p>	Practical work in Geography 1 Introduction to Maps Activities Assignment / map work – India Political
AUGUST 2024	22 Days	32 Periods	<p><b><u>Fundamentals of Physical Geography.</u></b>  <b><u>Unit III</u></b>                      5 Minerals and Rocks - Deleted                      6 Geomorphic Processes                      7 Landforms and their Evolution</p> <p><b><u>UNIT IV</u></b>                      8 Composition and Structure of Atmosphere</p> <p><b>PWT/UT-II (08-10 Aug. 2024)</b></p>	Practical work in Geography 1 Latitude, longitude and time Activities Assignment / map work – Physical features of India
SEPTEMBER 2024	17 Days	26 Periods	<p><b><u>India – Physical Environment.</u></b>  <b><u>Unit II</u></b>                      3 Drainage System</p> <p><b><u>Unit III</u></b>                      4 Climate</p>	Practical work in Geography Assignment / map work – Rivers and lakes of India
<b>Mid Term Examination (23 Sep. – 04 Oct. 2024)</b>				
OCTOBER 2024	18 Days	27 Periods	<p><b><u>Fundamentals of Physical Geography.</u></b>  <b><u>Unit IV</u></b>                      9 Solar Radiation, Heat Balance and Temperature                      10 Atmospheric Circulation and Weather Systems (½ chapter)</p>	<p style="text-align: center;"><u>Activities</u>                      Assignment/ project works</p>

Month	No. of days	No. of Periods	Main topic and subtopics to be covered	Activities/projects/practical
NOVEMBER 2024	20 Days	30 Periods	<p><b><u>Fundamentals of Physical Geography.</u></b> <b><u>Unit IV</u></b> 10 Atmospheric Circulation and Weather Systems (½ chapter)</p> <p><b><u>Fundamentals of Physical Geography.</u></b> <b><u>Unit IV</u></b> 11 Water in the Atmosphere</p> <p><b><u>Fundamentals of Physical Geography.</u></b> <b><u>Unit IV</u></b> 12 World Climate and Climate Change</p>	<p><u>Activities</u> Assignment/ project works</p>
DECEMBER 2024	17 Days	26 Periods	<p><b><u>Fundamentals of Physical Geography.</u></b> <b><u>Unit V</u></b> 13 Water (Oceans)</p> <p><b><u>India – Physical Environment.</u></b> <b><u>Unit III</u></b> 5 Natural Vegetation</p> <p style="text-align: center;"><b>PWT/UT-III</b> <b>(12/12/2024 TO 14/12/2024)</b></p>	<p><u>Practical work in Geography 1</u> Map Projections</p>
JANUARY 2025	12 Days	18 Periods	<p><b><u>Fundamentals of Physical Geography.</u></b> <b><u>Unit V</u></b> 14 Movements of Ocean Water</p> <p><b><u>India – Physical Environment.</u></b> <b><u>Unit III</u></b> 6 Soils – Deleted</p> <p><b><u>Unit IV</u></b> 7 Natural Hazards and Disasters</p>	<p><u>Practical work in Geography 1</u> Topographical Maps.</p> <p><u>Map work:</u> Location of Biosphere reserves and major forest types</p>
FEBRUARY 2025	20 Days	28 Periods	<p><b><u>Fundamentals of Physical Geography.</u></b> <b><u>Unit VI</u></b> 15 Life on the Earth - Deleted 16 Biodiversity and Conservation</p> <p style="text-align: center;"><b>PWT/UT-IV</b> <b>(06/02/2025 TO 8/2/2025)</b></p>	<p><u>Practical work in Geography 1</u> Introduction to Remote sensing</p>
MARCH 2025	<b>Revision</b>			
<b>TERM END EXAMINATION 2025 (17/03/2025 TO 28/03/2025)</b>				

**SUGGESTED CLASS ROOM ACTIVITIES: -**

- GROUP DISCUSSION OR DEBATE
- MAP PRACTICE
- GRAPH AND DATA INTERPRETATION
- FOCUS ON LOCAL AREA RESOURCES & ENVIRONMENT
- OTHER RELEVANT ACTIVITIES

*Note: Any changes in the syllabus, if announced by CBSE during the academic year 2024-25, have to be incorporated into the split-up syllabus by the concerned teachers and Principal accordingly. In this regard, Principals and teachers will always remain in touch with CBSE and its website. Art integrated activities must be integrated with the teaching-learning process*

**NAVODAYA VIDYALAYA SAMITI**

**CLASS:11**

**SUBJECT:ECONOMICS**

**SUBJECTCODE:030**

<b>Units</b>		<b>Marks</b>	<b>Periods</b>
<b>PartA</b>	<b>StatisticsforEconomics</b>		
	Introduction	15	10
	Collection,OrganizationandPresentationofData		30
	StatisticalToolsandInterpretation	25	50
		<b>40</b>	90
<b>PartB</b>	<b>IntroductoryMicroEconomics</b>		
	Introduction	04	10
	Consumer’sEquilibriumandDemand	15	40
	ProducerBehaviorandSupply	15	35
	Forms of Market and Price Determination under Perfect Competition with simple applications	06	25
		<b>40</b>	110
	<b>TheoryPaper(Total)</b>	<b>80</b>	<b>200</b>
<b>PartC</b>	<b>ProjectWork</b>	20	20
	<b>GrandTotal</b>	<b>100</b>	220

Month	No.ofdays	No.ofPeriods	MainTopicandSubtopicstobecoved	Activities/Projects/ Practical/ Experiments to be held/Specific Assessment Tool(s) suggested.
APRIL 2024	22	27	<p><b>Unit 1: Introduction</b> What is Economics? Meaning, Scope, Functions of Statistics Importance of Statistics in Economics</p> <p><b>Unit 2: Collection, Organization and Presentation of data</b> Collection of data- sources of data- primary and secondary; how basic data is collected with concepts of Sampling; methods of collecting data; some important sources of secondary data: Census of India and National Sample Survey Organization.</p> <p><b>UT-IE EXAMINATION 26 TO 29 APRIL, 2024</b> <i>Syllabus:- Introduction; Collection of Data</i></p>	<p><b>Activity Based Teaching</b> Preparation of a Questionnaire by different groups of students - spending habits of JNV students, Dropout of students from class VI to class VIII Environmental Awareness etc.</p>
JULY 2024	26	35	<p><b>Organization of Data:</b> Meaning and types of variables; Frequency Distribution</p> <p><b>Presentation of Data:</b> Tabular Presentation and Diagrammatic Presentation of Data: (i) Geometric forms (bar diagrams and pie diagrams), (ii) Frequency diagrams (histogram, polygon and Ogive) and (iii) Arithmetic line graphs (time series graph).</p> <p><b>Unit: 3</b> <b>Statistical Tools and Interpretation</b> (For all the numerical problems and solutions, the appropriate economic interpretation may be attempted. This means, the students need to solve the problems and provide interpretation for the results derived.)</p> <p><b>Measures of Central Tendency-</b> Arithmetic Mean, Median and Mode</p>	<p><b>Activity Based Teaching:</b> Construction of Bar diagram on Student strength of different class on the basis of Sex, Category etc. Calculation of Modal Shoe Size of a Particular Class, Construction of Time series graph on the basis of no. of Registration of Candidates in JNVST in last five years.</p>

Month	No.ofdays	No.ofPeriods	MainTopicandSubtopicstobecoved	Activities/Projects/ Practical/ Experiments to be held/Specific Assessment Tool(s) suggested.
AUGUST2024	22	28	<p><b>Correlation:</b>Meaning and properties,Scatter diagram; Measures ofcorrelation – Karl Pearson’smethod (two variablesungrouped data), Spearman’s rank correlation.</p> <p><b>Introduction to Index Numbers-</b> meaning, types- wholesale price index, Consumer price Index and index of industrial production, uses of index numbers; inflation and index numbers.</p> <p><b>UT-IIEXAMINATION08TO10AUGUST,2024</b>  <i>Syllabus for UT-II Exam: - Organization of Data, Presentation of Data, Statistical ToolsInterpretation, Measures of Central Tendency – Arithmetic Mean</i></p>	<p>Questions on different types of Correlation, Rank Correlation Assertion and Reason types of Questionsbased on Correlation, Index Numbers Calculation of inflation rate</p>
SEPTEMBER2024	17	10	<p><b>INTRODUCTORY MICRO ECONOMICS (40 MARKS)</b>  <b>UNIT4:Introduction</b>                      Meaning of microeconomics and macroeconomics; positive and normative economics                      What is an economy? Centralproblems of an economy: what, how and for whom to produce; concepts of production possibility frontier and opportunity cost.</p> <p><b>RevisionforTerm1Examination</b>  <b>TERM1EXAM23Septemberto04October,2024</b>  <i>SyllabusforTERM-1Exam:-Units1to4</i></p>	
OCTOBER2024	18	24	<p><b>Unit-5: Consumer's Equilibrium and Demand</b>                      Consumer's equilibrium -meaning of utility, marginal utility, law of diminishing marginal utility, conditions of consumer's equilibrium using marginal utility analysis.                      Indifference curve analysis of Consumer'sequilibrium-the Consumer's budget (budget set and budget line),preferences of the consumer(indifferencecurve,indifferencemap)andc onditions ofconsumer'sequilibrium.</p>	<p>ProjectWork:                      1.EffectonPPC due to various governmentpolicies                      Opportunity Cost as an Economic Tool(taking real life situations)</p>



Month	No.ofdays	No.ofPeriods	MainTopicandSubtopicstobecoved	Activities/Projects/ Practical/ Experiments to be held/Specific Assessment Tool(s) suggested.
NOVEMBER2024	20	25	<p>Demand, market demand, determinants of demand, demand schedule, demand curve and its slope, Movement along and shifts in the demand curve;</p> <p>Price elasticity of demand - factors affecting price elasticityof demand; measurement of price elasticityof demand – percentage- change method and total expenditure method.</p> <p><b>Unit6:ProducerBehaviorandSupply</b></p> <p>MeaningofProductionFunction–Short-Runand Long-Run Total Product, Average Product andMarginal Product.Returns to a Factor</p>	<p><b>Activity based Teaching:</b></p> <p>Individual Demand &amp; Market Demand Schedule</p>
DECEMBER2024	17	26	<p><b>Unit6:ProducerBehaviorandSupply</b></p> <p>Cost:Shorttruncosts-totalcost,totalfixedcost,total variable cost; Average cost; Average fixed cost, average variablecostandmarginalcost-meaningand their relationships.</p> <p>Revenue: total, average and marginal revenue - meaning and their relationship.</p> <p>Producer'sequilibrium- meaning and its conditions in terms of marginal revenue-marginal cost.</p> <p>Supply,marketsupply,determinantsofsupply, supplyschedule,supply curveanditslope, movementsalong and shiftsin supply curve, price elasticityofsupply;measurementofpriceelasticity ofsupply-percentage-changemethod.</p> <p><b>UT–IIIEXAMINATION12TO14DEC.,2024</b></p>	<p>Case study questions and competitive Exam based questions</p> <p>Assertion and Reason typesof Questions on Producer’s equilibrium.</p> <p>Numerical Questions onElasticity of Supply</p>

Month	No.ofdays	No.ofPeriods	MainTopicandSubtopicstobecoved	Activities/Projects/ Practical/ Experiments to be held/Specific Assessment Tool(s) suggested.
			<i>SyllabusforUT-IIIExam:-Unit5andUnit6</i>	
JANUAR Y 2025	14	19	<b>Unit 7: Forms of Market and Price Determination under Perfect Competition with simple application</b> Perfectcompetition-Features;Determinationofmarket equilibrium andeffects of shifts in demand and supply.	<b>Project Work:</b> Effect of PriceChange on a Complementary Good (taking prices from reallifevisiting local market)
FEBRUARY 2025	19	6 20	Simple Applications of Demand and Supply: Price ceiling, price floor. <b>PREPARATIONOFPROJECTWORK &amp; RevisionfortheUTIV&amp;FinalExams UT-IVEXAMINATION06TO08FEB,2025</b> <i>SyllabusforUT-IVExam:-Unit6and7</i>	PracticeTests
MARCH 2025	10		<b>Revision for the Final Exams TERM – II EXAMS 17 TO 28 MARCH 2025</b>	PracticeTests

SUGGESTEDQUESTIONPAPERPATTERNBYCBSE

Economics(CodeNo.030)

ClassXI(2024-25)Theory:80Marks3hrs.Project:20Marks

SN	TypologyofQuestions	Marks	Percentage
1	<b>Remembering and Understanding:</b> Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers. Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions, and statingmain ideas	44	55%
2	<b>Applying:</b> Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	18	22.5%
3	<b>Analyzing, Evaluating and Creating:</b> Examine and break information into parts by identifying motives or causes. Make inferences and find evidence to support generalizations. Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria. Compileinformation togetherin adifferent way by combining elements in a new pattern or proposing alternative solutions.	18	22.5%
	Total	80	100%

**NAVODAYA VIDYALAYA SAMITI**

**CLASS XI (2024-25)**

**SUBJECT: ACCOUNTANCY (055)**

<b>Part A: FINANCIAL ACCOUNTING-I (56 Marks)</b>			
Units	Name of the Chapter/ Unit	Marks	Periods
Unit-1	Theoretical Framework	12	25
Unit 2.	Accounting Process	44	115
	<b>Total</b>	<b>56</b>	<b>140</b>
<b>Part B: FINANCIAL ACCOUNTING-II (24 Marks)</b>			
Unit 3.	Financial Statements of Sole Proprietorship	24	60
	<b>Total</b>	<b>24</b>	<b>60</b>
<b>Part-C: PROJECT WORK (20 Marks)</b>			
	Project Work	20	20
	<b>Total</b>	<b>20</b>	<b>20</b>
	<b>Grand Total (A +B+C)</b>	<b>100</b>	<b>220</b>

Month	No. of days	No. of Periods	Main Topic and Subtopics to be covered	Activities/Projects/ Practical/ Experiments to be held/Specific Assessment Tool(s) suggested.
APRIL 2024	22	28	<p><b>Introduction to Accounting</b> Accounting - Concept, meaning, as a source of information, types of accounting information; users of accounting information and their needs. Qualitative Characteristics of Accounting Information. Role of Accounting in Business.</p> <p><b>Basic Accounting Terms</b> Entity, Business Transaction, Capital, Drawings, Liabilities (Non-current and Current), Assets (Non-current and Current), Expenditure (Capital and Revenue), Expenses, Revenue, Income, Profit, Gain, Loss, Purchase, Sales, Goods, Stock, Debtors. Creditors, Voucher, Discount (Trade Discount and Cash Discount)</p> <p><b>Theory Base of Accounting</b> Fundamental Accounting Assumptions: GAAP – Concept Basic Accounting Concepts: Business Entity, Money Measurement, Going Concern, Accounting Period</p> <p><b>UT-I EXAMINATION 26 TO 29 APRIL, 2024</b></p> <p><b>Syllabus: - Introduction to Accounting, Accounting Terms</b></p>	<p>Different assignments can be given to the students to understand the topic through role play method.</p>

Month	No. of days	No. of Periods	Main Topic and Subtopics to be covered	Activities/Projects/ Practical/ Experiments to be held/Specific Assessment Tool(s) suggested.
JULY 2024	26	34	<p><b>Theory Base of Accounting</b>                      Cost Concept, Dual Aspect, Revenue Recognition, Matching, Full Disclosure, Consistency, Conservatism, Materiality and Objectivity                      System of Accounting, Basis of Accounting: Cash Basis and Accrual Basis                      Accounting Standards: Applicability of Accounting Standards (AS) and Indian Accounting Standards (IndAS)                      Goods and Service Tax (GST): Characteristics and Advantages</p> <p><b>Unit-2: Accounting Process</b></p> <p><b>Recording of Business Transactions</b></p> <p>Voucher and Transactions: Source Documents and Vouchers, Preparation of Vouchers, Accounting Equation Approach: Meaning and Analysis, Rules of Debit and Credit                      Recording of Transactions: Books of Original Entry – Journal                      Special Purpose Books                      Cash Book: Simple, Cash book with bank column and petty cash book                      Purchase Book, Sales Book, Purchase Return Book Sales Return Book, Journal Proper</p> <p><b>Note: Including trade discount, freight and cartage expenses for simple GST calculation</b></p>	<p>Project, The Indian Accounting Standard can be drawn in chart Paper.</p>

Month	No. of days	No. of Periods	Main Topic and Subtopics to be covered	Activities/Projects/ Practical/ Experiments to be held/Specific Assessment Tool(s) suggested.
AUGUST 2024	22	32	<p><b>Ledger:</b> Format, Posting from Journal and Subsidiary Books, Balancing of Accounts</p> <p><b>Bank Reconciliation Statement</b> Need and Preparation of Bank Reconciliation Statement</p> <p><b>Depreciation, Provision and Reserve</b> Depreciation: Meaning, Features, Need, Causes, Factors Other similar terms: Depletion and Amortisation Methods of Depreciation: Straight Line Method (SLM) and Written Down Value Method (WDV) (Note: Excluding change of method) Difference between SLM and WDV Advantages of SLM and WDV Preparation of asset account, depreciation account and provision for depreciation account</p> <p><b>UT-II EXAMINATION 08 TO 10 AUGUST, 2024</b> <i>Syllabus for UT-II Exam: - Theory base of Accounting, Vouchers, Accounting Equations, Journal, Subsidiary Books</i></p>	<p>Quiz, Class Test, Weekly Test, Oral Test, Mind map, Case Studies, Role Play, Crossword Puzzles</p>
SEPTEMBER 2024	17	20	<p>Treatment of disposal of asset</p> <p><b>Provision and Reserve</b> Provision, Reserves, Difference between Provisions and Reserves Types of Reserves: Revenue Reserve, Capital Reserve, General Reserve, Specific Reserve, Secret Reserve Difference between Revenue Reserve and Capital Reserve</p> <p><b>Revision for Term 1 Examination</b> <b>TERM 1 EXAM 23 September to 04 October, 2024</b> <i>Syllabus for TERM - I Exam: - Introduction to Accounting to Depreciation, Provision and Reserves</i></p>	<p>Quiz, Class Test, Weekly Test, Oral Test, Mind map, Case Studies, Role Play, Crossword Puzzles</p>

Month	No. of days	No. of Periods	Main Topic and Subtopics to be covered	Activities/Projects/ Practical/ Experiments to be held/Specific Assessment Tool(s) suggested.
OCTOBER 2024	18	26	<p><b>Trial Balance and Rectification of Errors</b></p> <p>Trial Balance: Objectives, meaning and preparation</p> <p>Errors: Classification - Error of omission, commission, principle and compensating, their effect on Trial Balance.</p> <p>Detection and rectification of errors:</p> <p>(i) Error which do not affect trial balance</p> <p>(ii) Errors which affect trial balance</p> <p>Preparation of Suspense Account</p>	<p>Quiz, Class Test, Weekly Test, Oral Test, Mind map, Case Studies, Role Play, Crossword Puzzles</p>
NOVEMBER 2024	20	30	<p><b>Financial Statement of Sole – Proprietorship</b></p> <p>Meaning, Objectives and Importance; Revenue and Capital Expenditure; Deferred Revenue Expenditure, Opening Journal Entry. Trading and Profit and Loss Account: Gross Profit, Operating Profit and Net Profit. Preparation of Balance Sheet: Need, grouping and marshalling of assets and liabilities.</p> <p>Adjustment in preparation of Financial Statements with respect to Closing Stock, Outstanding Expenses, Prepaid Expenses, Accrued Income, Income Received in Advance, Depreciation.</p>	<p>Project, Quiz, Class Test, Weekly Test, Oral Test, Mind map, Entry card, Exit Card, Case Studies, Role Play, Crossword Puzzles</p>
DECEMBER 2024	17	20	<p>Adjustment in preparation of Financial Statements with respect to Bad Debts, Provision for Doubtful Debts, Provision for Discount on Debtors, Abnormal Loss, Goods taken for personal use/staff welfare, Interest on capital and manager's commission.</p> <p>Preparation of Trading and Profit and Loss Account and Balance Sheet of a sole proprietorship with adjustment.</p> <p><b>UT – III EXAMINATION 12 TO 14 DEC., 2024</b></p> <p><i>Syllabus for UT-III Exam: - Trial Balance and Rectification of Error, Financial Statements without Adjustments</i></p>	<p>Project, Quiz, Class Test, Weekly Test, Oral Test, Mind map, Entry card, Exit Card, Case Studies, Role Play</p>



Month	No. of days	No. of Periods	Main Topic and Subtopics to be covered	Activities/Projects/ Practical/ Experiments to be held/Specific Assessment Tool(s) suggested.
JANUARY 2025	14	10	<b>Incomplete Records</b> Features, reasons and limitations. Ascertainment of Profit/Loss by Statement of Affairs method (excluding conversion method)	Project, Quiz, Class Test, Weekly Test, Oral Test, Crossword Puzzles
FEBRUARY 2025	19	20	<b>PREPARATION OF PROJECT WORK</b> <b>&amp;</b> <b>Revision for the UT IV &amp;Final Exams</b> <b>UT – IV EXAMINATION 06 TO 08 FEB, 2025</b> <i>Syllabus for UT-IV Exam: - Financial Statement with adjustment and Incomplete Records</i>	Practice Tests
MARCH 2025	10		<b>Revision for the Final Exams</b> <b>TERM – II EXAMS 17 TO 28 MARCH 2025</b>	Practice Tests

**SUGGESTED QUESTION PAPER PATTERN BY CBSE**

**Accountancy (Code No. 055)**

**Class XI (2024-25) Theory: 80 Marks 3 hrs. Project: 20 Marks**

SN	Typology of Questions	Marks	Percentage
1	<b>Remembering and Understanding:</b> Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers. Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions, and stating main ideas	44	55%
2	<b>Applying:</b> Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	19	23.75%
3	<b>Analysing, Evaluating and Creating:</b> Examine and break information into parts by identifying motives or causes. Make inferences and find evidence to support generalizations. Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria. Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions.	17	21.25%
Total		80	100%

**NAVODAYA VIDYALAYA SAMITI**

**CLASS XI (2024-25)**

**SUBJECT: BUSINESS STUDIES (054)**

Units	Topics	Periods	Marks
<b>Part A</b>	<b>FOUNDATION OF BUSINESS</b>		
1	Evolution and Fundamentals of Business	18	16
2	Forms of Business Organisation	24	
3	Public, Private and Global Enterprises	18	14
4	Business Services	18	
5	Emerging Modes of Business	10	10
6	Social Responsibility of Business and Business Ethics	12	
<b>TOTAL</b>		<b>100</b>	<b>40</b>
<b>Part B</b>	<b>FINANCE AND TRADE</b>		
1	Sources of Business Finance	30	20
2	Small Business and Enterprises	16	
3	Internal Trade	30	20
4	International Business	14	
<b>TOTAL</b>		<b>90</b>	<b>40</b>
<b>Part C</b>	<b>PROJECT WORK (ONE)</b>	30	20

**PART A: FOUNDATION OF BUSINESS**

Month	No. of days	No. of Periods	Main Topic and Subtopics to be covered	Activities/Projects/ Practical/ Experiments to be held/Specific Assessment Tool(s) suggested.
<b>APRIL 2024</b>	<b>22</b>	<b>28</b>	<p><b>Unit. 01 – Evolution and Fundamentals of Business</b>                      History of Trade and Commerce in India: Indigenous Banking System, Rise of Intermediaries, Transport, Trading Communities, Merchant Corporations, Major Trade Centres, Major Import and Exports, Position of Indian Sub-Continent in the World Economy                      Business – Meaning, Characteristics,                      Business, Profession and Employment – Concept                      Objective of Business                      Classification of Business Activities – Industry and Commerce                      Industry Types - Primary, Secondary, Tertiary Meaning and Subgroups                      Commerce – Trade: (types – internal, external; wholesale and retail) and auxiliaries to trade (Banking, Insurance, Transportation, Warehousing,</p>	<p>Project, Quiz, Mind map, Class Tests, Crossword Puzzles, Case Studies, Role Play</p>

Month	No. of days	No. of Periods	Main Topic and Subtopics to be covered	Activities/Projects/ Practical/ Experiments to be held/Specific Assessment Tool(s) suggested.
			<p>Communication and Advertising) – Meaning Business Risk – Concept <b>Unit. 02 - Forms of Business Organizations</b> Sole Proprietorship-Concept, merits and limitations. Partnership-Concept, types, merits and limitation of partnership, registration of a partnership firm, partnership deed. Types of partners <b>UT – I EXAMINATION 26 TO 29 APRIL, 2024</b> <i>Syllabus for UT – I: Evolution and Fundamentals of Business, Sole Proprietorship, Partnership</i></p>	
JULY 2024	26	32	<p><b>Unit. 02 - Forms of Business Organizations</b> Hindu Undivided Family Business: Concept. Cooperative Societies-Concept, merits, and limitations. Company - Concept, merits and limitations; Types: Private, Public and One Person Company – Concept. Formation of company - stages, important documents to be used in formation of a company Choice of form of business organization <b>Unit. 03 – Public, Private and Global Enterprises</b> Public Sector and Private Sector Enterprises – Concept Forms of Public Sector Enterprises – Departmental Undertakings, Statutory Corporations and Government Company Global Enterprises – Features Joint Venture, Public Private Partnership – Concept</p>	
AUGUST 2024	22	28	<p><b>Unit. 04 – Business Services</b> Business services – meaning and types. Banking: Types of bank accounts - savings, current, recurring, fixed deposit and multi-option deposit account Banking services with particular reference to Bank Draft, Bank Overdraft, and Cash credit, E-Banking:- meaning, Types of digital Payments Insurance – Principles. Types – life, health, fire and marine insurance – concept Postal Service - Mail, Registered Post, Parcel, Speed Post, Courier – meaning <b>Unit. 05 – Emerging Modes of Business</b> E - business: concept, scope and benefits <b>UT – II EXAMINATION 08 TO 10 AUG, 2024</b> <i>Syllabus for UT – II: Joint Hindu Family</i></p>	<p>Project, Quiz, Mind map, Class Tests, Crossword Puzzles, Case Studies, Role Play, Bank Visits, Display of different Cards</p>

Month	No. of days	No. of Periods	Main Topic and Subtopics to be covered	Activities/Projects/ Practical/ Experiments to be held/Specific Assessment Tool(s) suggested.
			<i>Business, Cooperative Societies, Joint Stock Company, Formation of a Company; Public, Private and Global Enterprises</i>	
SEPTEMBER 2024	17	12	<b>Unit. 06 – Social Responsibility of Business and Business Ethics</b> Concept of Social Responsibility Case of Social Responsibility Responsibility towards owners, investors, consumers, employees, government and community Role of business in environment protection Business Ethics: - Concept and Elements <b>Revision for Term 1 Examination</b> <b>TERM 1 EXAM 23 September to 04 October, 2024</b>	Project, Quiz, Mind map, Class Tests, Crossword Puzzles, Case Studies, Role Play, Live Presentation of Online Transactions
<b>PART B: FINANCE AND TRADE</b>				
OCTOBER 2024	18	30	<b>Unit. 07 – Sources of Business Finance</b> Concept of Business Finance Owners’ Funds- equity shares, preferences share, retained earnings Borrowed funds: debentures and bonds, loan from financial institution, commercial banks, public deposits, trade credit, Inter Corporate Deposits (ICD)	Quiz, Mind map, Class Tests, Crossword Puzzles, Case Studies, Role Play
NOVEMBER 2024	20	22	<b>Unit. 08 – Small Business and Enterprises</b> Entrepreneurship Development (ED): Concept, Characteristics and Need. Process of Entrepreneurship Development: Start-up India Scheme, ways to fund start-up. Intellectual Property Rights and Entrepreneurship. Small scale enterprise as defined by MSMED Act 2006 (Micro, Small and Medium Enterprise Development Act) <b>Unit. 09 – Internal Trade</b> Internal trade - meaning and types services rendered by a wholesaler and a retailer	Project, Quiz, Mind map, Class Tests, Crossword Puzzles, Case Studies, Role Play
DECEMBER 2024	17	24	<b>Unit. 09 – Internal Trade</b> Types of retail-trade-Itinerant and small-scale fixed shops retailers Large scale retailers-Departmental stores, chain stores – concept GST (Goods and Services Tax): Concept and key-features Role of small business in India with special reference	Quiz, Mind map, Class Tests, Crossword Puzzles, Case Studies, Role Play, Visit of nearest Departmental Store and Chain Store

Month	No. of days	No. of Periods	Main Topic and Subtopics to be covered	Activities/Projects/ Practical/ Experiments to be held/Specific Assessment Tool(s) suggested.
			to rural areas Government schemes and agencies for small scale industries: National Small Industries Corporation (NSIC) and District Industrial Centre (DIC) with special reference to rural, backward areas <b>UT – III EXAMINATION 12 TO 14 DEC., 2024</b> <i>Syllabus for UT – III: Sources of Business Finance and Small Business and Enterprises</i>	
JANUARY 2025	14	14	<b>Unit. 10 – International Trade</b> International trade: concept and benefits Export trade – Meaning and procedure Import Trade - Meaning and procedure Documents involved in International Trade; indent, letter of credit, shipping order, shipping bills, mate's receipt (DA/DP) World Trade Organization (WTO) meaning and objectives	Quiz, Mind map, Class Tests, Crossword Puzzles, Case Studies, Role Play
FEBRUARY 2025	19	30	<b>PREPARATION OF PROJECT WORK &amp; Revision for the UT IV &amp; Final Exams</b> <b>UT – IV EXAMINATION 06 TO 08 FEB, 2025</b> <i>Syllabus for UT-IV Exam: - Internal Trade and International Trade</i>	Practice Tests
MARCH 2025	10		<b>Revision for the Final Exams</b> <b>TERM – II EXAMS 17 TO 28 MARCH 2025</b>	Practice Tests

**SUGGESTED QUESTION PAPER PATTERN BY CBSE**

**Business Studies (Code No. 054)**

**Class XI (2024-25)**

**Theory: 80 Marks**

**Project: 20 Marks**

S/N	Typology of Questions	Marks	Percentage
01	<b>Remembering and Understanding:</b> Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers. Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions, and stating main ideas	44	55%
02	<b>Applying:</b> Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way	19	23.75%

13	<p><b>Analysing, Evaluating and Creating:</b>                  Examine and break information into parts by identifying motives or causes. Make inferences and find evidence to support generalizations. Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria. Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions.</p>	17	21.25%
<b>Total</b>		<b>80</b>	<b>100%</b>

**NOTE:** - Any change in the syllabus, if announced by the CBSE during the academic year 2024-25, has to be incorporated in the split-up syllabus by the concerned teachers accordingly. In this regard Teachers are requested to be in touch with the CBSE website.

NAVODAYA VIDYALAYA SAMITI,  
CLASS : XII SUBJECT : COMPUTER SCIENCE (083)

Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
April	22	23T+2P	10	<p><b>Unit I: Computer Systems and Organisation:</b></p> <ul style="list-style-type: none"> <li>• Basic computer organisation: Introduction to Computer System, hardware, software, input device, output device, CPU, memory (primary, cache and secondary), units of memory (bit, byte, KB, MB, GB, TB, PB)</li> <li>• Types of software: System software (Operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler, and interpreter), application software</li> <li>• Operating System(OS): functions of the operating system, OS user interface</li> <li>• Boolean logic: NOT, AND, OR, NAND, NOR, XOR, NOT, truth tables and De Morgan's laws, Logic circuits</li> <li>• Number System: Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems</li> <li>• Encoding Schemes: ASCII, ISCII, and Unicode (UTF8, UTF32)</li> </ul>	<ul style="list-style-type: none"> <li>• Exploring inside computer system in the computer lab. Record of the configuration of computer system used by the student in the computer lab</li> </ul>
<b>PWT-01/UT- 01 (26-29 APRIL 2024)</b>					



Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
JULY	27	26 T	45	<p><b>Unit II: Computational Thinking and Programming - I</b></p> <ul style="list-style-type: none"> <li>• Introduction to Problem-solving: Steps for Problem-solving (Analysing the problem, developing an algorithm, coding, testing, and debugging), representation of algorithms using flowchart and pseudocode, decomposition</li> <li>• Familiarization with the basics of Python programming: Introduction to Python, Features of Python, executing a simple “hello world” program, execution modes: interactive mode and script mode, Python character set, Python tokens(keyword, identifier, literal, operator, punctuator), variables, concept of l-value and r-value, use of comments</li> <li>• Knowledge of data types: Number(integer, floating point, complex), boolean, sequence(string, list, tuple), None, Mapping(dictionary), mutable and immutable data types.</li> </ul>	<p><b>Programming in Python:</b>                      Print ‘Hello World’ Program. Programs involving simple data types Program to find absolute value, Program to Sort 3 nos.</p>

Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
AUGUST	22	16T+8P		<p><b>Unit II: Computational Thinking and Programming – 1</b></p> <ul style="list-style-type: none"> <li>• Operators: arithmetic operators, relational operators, logical operators, assignment operator, augmented assignment operators, identity operators (is, is not), membership operators (in, not in)</li> <li>• Expressions, statement, type conversion &amp; input/output: precedence of operators, expression, evaluation of expression, python statement, type conversion (explicit &amp; implicit conversion), accepting data as input from the console and displaying output</li> <li>• Errors: syntax errors, logical errors, runtime errors</li> <li>• Flow of control: introduction, use of indentation, sequential flow, conditional and iterative flow control</li> </ul>	<p>Python programs to apply different operators and types. Python programs using if, if.. else, if ... elif... else.</p> <p>Creating python Programs Using for and While loops as Interest calculation</p>
PWT-02/ UT- 02 (08-10 AUG 2024)					

Month.	No. of Days	No.of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
<b>SEPTEMBER</b>	<b>15</b>	<b>10T+4P</b>		<ul style="list-style-type: none"> <li>• Conditional statements: if, if-else, if-elif-else, flowcharts, simple programs: e.g.: absolute value, sort 3 numbers and divisibility of a number.</li> <li>• Iterative Statement: for loop, range (), while loop, flowcharts, break and continue statements, nested loops, suggested programs: generating pattern, summation of series, finding the factorial of a positive number, etc.</li> <li>• Strings: introduction, string operations (concatenation, repetition, membership and slicing),</li> <li>• traversing a string using loops, built-in functions/methods–len(), capitalize(), title(), lower(), upper(), count(), find(), index(), endswith(), startswith(), isalnum(), isalpha(), isdigit(), islower(), isupper(), isspace(),lstrip(),rstrip(), strip(), replace(), join(), partition(), split()</li> </ul>	<p>Program to calculate factorial of given no., Generation of Fibonacci series etc.</p> <p>Implement StringFunctions using python program</p>
<b>MID TERM (23 SEPT TO 04 OCT 2024)</b>					

Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
OCTOBER	22	08T+13P		<p><b>Unit II: Computational Thinking and Programming – 1</b></p> <ul style="list-style-type: none"> <li><b>Lists:</b> introduction, indexing, list operations (concatenation, repetition, membership and slicing), traversing a list using loops, built-in functions/methods— len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum()); nested lists,</li> <li>suggested programs: finding the maximum, minimum, mean of numeric values stored in a list; linear search on list of numbers and counting the frequency of elements in a list.</li> </ul>	<p>Different python Programs to implement List</p>

Month.	No. of Days	No.of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
NOVEMBER	26	10T+10P		<ul style="list-style-type: none"> <li>• Tuples: introduction, indexing, tuple operations (concatenation, repetition, membership and slicing); built-in functions/methods – len(), tuple(), count(), index(), sorted(), min(), max(), sum(); tuple assignment, nested tuple; suggested programs: finding the minimum, maximum, mean of values stored in a tuple; linear search on a tuple of numbers, counting the frequency of elements in a tuple.</li> <li>• Dictionary: introduction, accessing items in a dictionary using keys, mutability of a dictionary (adding a new term, modifying an existing item), traversing a dictionary, built-in functions/methods – len(), dict(), keys(), values(), items(), get(), update(), del(), del, clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), sorted(); Suggested programs: count the number of times a character appears in a given string using a dictionary, create a dictionary with names of employees, their salary and access them.</li> </ul>	<p>Different python Programs to implement Tuples related methods</p> <p>Suggested programs: count the number of times a character appears in a given string using a dictionary, create a dictionary with names of employees, their salary and access them and Different Python Programs to Implement dictionary and related methods.</p>

Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
DECEMBER	20	10T+4P	15	<p><b>Introduction to Python modules:</b></p> <ul style="list-style-type: none"> <li>Importing module using 'import' and using from statement, importing math module (pi, e, sqrt(), ceil(), floor(), pow(), fabs(), sin(), cos(), tan()); random module (random(), randint(), randrange()), statistics module (mean(), median(), mode()).</li> </ul> <p><b>Unit III: Society, Law and Ethics:</b></p> <ul style="list-style-type: none"> <li>Digital Footprints • Digital Society and Netizen: net etiquettes, communication etiquettes, social media etiquettes</li> <li>Data Protection: Intellectual property rights (copyright, patent, trademark), violation of IPR(plagiarism, copyright infringement, trademark infringement), open source software and licensing (Creative Commons, GPL and Apache)</li> </ul>	Generate random number using random module and implement different random functions.
<b>PWT-03/ UT -3 (12-14 DEC 2024)</b>					
JANUARY	14	10T+7P		<p><b>Unit III: Society, Law and Ethics:</b></p> <ul style="list-style-type: none"> <li>Cyber Crime: definition, hacking, eavesdropping, phishing and fraud emails, ransomware, cyber trolls, cyber bullying</li> <li>Cyber safety: safely browsing the web, identity protection, confidentiality</li> <li>Malware: viruses, trojans, adware</li> <li>E-waste management: proper disposal of used electronic gadgets.</li> <li>Information Technology Act (IT Act)</li> <li>Technology and society: Gender and disability issues while teaching and using computers</li> </ul>	
FEBRUARY	REVISION				
<b>PWT-04/UT-4 (06-08 FEB 2025)</b>					

Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
MARCH	REVISION				
<b>TERM-END EXAM (17-28 MARCH 2025)</b>					

NOTE: T STANDS FOR THEORY PERIODS AND P STANDS FOR PRACTICAL PERIODS

S.No.	Unit Name	Marks (Total=30)
1.	<b>Lab Test (12 marks)</b>	
	Python program (60% logic + 20% documentation + 20% code quality)	<b>12</b>
2.	<b>Report File + Viva (10 marks)</b>	
	Report file: Minimum 20 Python programs	<b>7</b>
	Viva voce	<b>3</b>
3.	<b>Project (that uses most of the concepts that have been learnt)</b>	<b>8</b>

### Suggested Practical List

#### Python Programming

- Input a welcome message and display it.
- Input two numbers and display the larger / smaller number.
- Input three numbers and display the largest / smallest number.
- Generate the following patterns using nested loop.
- Write a program to input the value of x and n and print the sum of the following series:
  - $1+x+x^2+x^3+x^4+. \dots\dots\dots x^n$
  - $1-x+x^2-x^3+x^4 \dots\dots\dots x^n$
  - $x - x^2 + x^3 - x^4 + \dots\dots\dots x^n$
- Determine whether a number is a perfect number, an Armstrong number or a palindrome.
- Input a number and check if the number is a prime or composite number.
- Display the terms of a Fibonacci series.
- Compute the greatest common divisor and least common multiple of two integers.
- Count and display the number of vowels, consonants, uppercase, lowercase characters in string.
- Input a string and determine whether it is a palindrome or not; convert the case of characters in : string.
- Find the largest/smallest number in a list/tuple
- Input a list of numbers and swap elements at the even location with the elements at the odd location.
- Input a list/tuple of elements, search for a given element in the list/tuple.
- Input a list of numbers and find the smallest and largest number from the list.

- Create a dictionary with the roll number, name and marks of n students in a class and display the names of students who have scored marks above 75.

**6. Suggested Reading Material**

- A. NCERT Textbook for COMPUTER SCIENCE (Class XI)
- B. Support Materials on the CBSE website.



NAVODAYA VIDYALAYA SAMITI,

CLASS : XI SUBJECT : INFORMATICS PRACTICES (065)

MAX. MARKS: 100 (70 Theory + 30 Practical)					
Distribution of Marks and Periods					
Unit No	Unit Name	Marks		Periods	
		Theory	Theory	Practical	Total
1	Introduction to Computer System	10	10	-	10
2	Introduction to Python	25	35	28	63
3	Database concepts and the Structured Query Language	30	23	17	40
4	Introduction to Emerging Trends	5	7	-	7
5	Practical	30	-	-	-
<b>TOTAL</b>		<b>100</b>	<b>75</b>	<b>45</b>	<b>120</b>

Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
April	22	20T+08P	10 MARKS	<p><b>UNIT 1: Introduction to Computer System</b></p> <ul style="list-style-type: none"> <li>Introduction to computer and computing:</li> <li>evolution of computing devices,</li> <li>components of a computer system and their interconnections, and input/output devices.</li> <li>Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery, and related security concerns.</li> <li>Software: purpose and types – system and application software, generic and specific purpose software.</li> </ul> <p><b>UNIT 2: Introduction to Python</b></p> <ul style="list-style-type: none"> <li>Basics of Python programming,</li> <li>Python interpreter - interactive and script mode,</li> <li>The structure of a program, indentation</li> </ul>	<p>Exploring computer system parts and recording the configuration</p> <p>Activities as specified in the NCERT book.</p>
<b>PWT-01/UT- 01 (26-29 APRIL 2024)</b>					

Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
JULY	27	15T+13P	25 MARKS	<b>Unit 2: Introduction to Python Basics of Python</b> (Continued..) <ul style="list-style-type: none"> <li>• Indentation, identifiers, keywords, constants, variables.</li> <li>• types of operators, precedence of operators,</li> <li>• Data types, mutable and immutable data types, statements, expressions, evaluation and comments, input and output statements, data type conversion, debugging.</li> <li>• Control Statements: if-else, if-elif-else, while loop, for loop</li> </ul>	<ul style="list-style-type: none"> <li>• Executing Python program</li> <li>• Chart on Operator</li> <li>• Chart on Data Types</li> </ul>
AUGUST	22	05T+10P		Identifiers, keywords, constants, variables, types of operators, precedence of operators, data types, mutable and immutable data types, statements, expressions, evaluation and comments, input and output statements, data type conversion, and debugging. Conditional statements: if-else, for loop.	Practical programs as specified in the list. Activities as specified in the NCERT book
<b>PWT-02/ UT- 02 (08-10 AUG 2024)</b>					

Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
SEPTEMBER	15	05T+10P		<p><b>Lists:</b> list operations - creating, initializing, traversing, and manipulating lists, list methods, and built-in functions.</p> <p><b>Dictionary:</b> the concept of key-value pair, creating, initializing, traversing, updating, and deleting elements, dictionary methods, and built-in functions.</p>	<p>Practical programs as specified in the list.</p> <p>Activities as specified in the NCERT book.</p>
<b>MID TERM (23 SEPT TO 04 OCT 2024)</b>					
OCTOBER	22	13T+7P	30 MARKS	<p><b>Unit 3: Database concepts and the Structured Query Language</b></p> <p>Database Concepts: Introduction to database concepts and its need, Database Management System.</p> <p>Relational data model: Concept of the domain, tuple, relation, candidate key, primary key, alternate key.</p> <p>Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation Language, Introduction to MySQL, creating a database using MySQL, and Data Types.</p>	<p>SQL commands as specified in the list.</p> <p>Activities as specified in the NCERT book.</p>
NOVEMBER	26	7T+13P	30 MARKS	<p><b>Unit 3: Database concepts and the Structured Query Language (Continued.....)</b></p> <p><b>Data Definition:</b></p> <ul style="list-style-type: none"> <li>• CREATE DATABASE</li> <li>• CREATE TABLE,</li> <li>• DROP, ALTER Data Query:</li> <li>• SELECT, FROM, WHERE with relational operators,</li> <li>• BETWEEN,</li> </ul>	<p>SQL commands as specified in the list.</p> <p>Activities as specified in the NCERT book.</p>

Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
DECEMBER	20	7T+13P		<b>Unit 3: Database concepts and the Structured Query Language (Continued.....)</b> <ul style="list-style-type: none"> <li>• Logical operators,</li> <li>• IS NULL,</li> <li>• IS NOT NULL</li> <li>• Data Manipulation:</li> <li>• INSERT, DELETE, UPDATE</li> </ul>	SQL commands as specified in the list.  Activities as specified in the NCERT book.
<b>PWT-03/ UT -3 (12-14 DEC 2024)</b>					
JANUARY	14	7T+07P	05 MARKS	<b>Unit 4: Introduction to the Emerging Trends:</b> <ul style="list-style-type: none"> <li>• Artificial Intelligence,</li> <li>• Machine Learning,</li> <li>• Natural Language Processing,</li> <li>• Immersive experience (AR, VR),</li> <li>• Robotics, Big data, and its characteristics,</li> <li>• Internet of Things (IoT),</li> <li>• Sensors, Smart Cities,</li> <li>• Cloud Computing and Cloud Services (SaaS, IaaS, PaaS);</li> <li>• Grid Computing,</li> <li>• Blockchain technology.</li> </ul>	Activities as specified in the NCERT book.
FEBRUARY	<b>REVISION</b>				
<b>PWT-04/UT-4 (06-08 FEB 2025)</b>					
MARCH					
<b>TERM-END EXAM (17-28 MARCH 2025)</b>					

**Practical Marks Distribution**

S.No.	Unit Name	Marks
1	Problem solving using Python programming language	11
3	Creating database using MySQL and performing Queries	7
4	Practical file (minimum of 14 python programs, and 14 SQL queries)	7
5	Viva-Voce	5
	<b>Total</b>	<b>30</b>

**Suggested Practical List**

**Programming in Python**

1. To find average and grade for given marks.
2. To find sale price of an item with given cost and discount (%).
3. To calculate perimeter/circumference and area of shapes such as triangle, rectangle, square and circle.
4. To calculate Simple and Compound interest.
5. To calculate profit-loss for given Cost and Sell Price.
6. To calculate EMI for Amount, Period and Interest.
7. To calculate tax - GST / Income Tax.
8. To find the largest and smallest numbers in a list.
9. To find the third largest/smallest number in a list.
10. To find the sum of squares of the first 100 natural numbers.
11. To print the first 'n' multiples of given number.
12. To count the number of vowels in user entered string.
13. To print the words starting with a alphabet in a user entered string.
14. To print number of occurrences of a given alphabet in each string.
15. Create a dictionary to store names of states and their capitals.
16. Create a dictionary of students to store names and marks obtained in 5 subjects.
17. To print the highest and lowest values in the dictionary.

**Data Management: SQL Commands**

18. To create a database
19. To create student table with the student id, class, section, gender, name, dob, and marks as attributes where the student id is the primary key.
20. To insert the details of at least 10 students in the above table.
21. To display the entire content of table.
22. To display Rno, Name and Marks of those students who are scoring marks more than 50.
23. To display Rno, Name, DOB of those students who are born between '2005- 01-01' and '2005-12-31'.

**Suggested material**

NCERT Informatics Practises - Text book for class - XI (ISBN- 978-93-5292-148-5 )

**NAVODAYVIDYALAYASAMITI**  
**CLASS-XI (2024-25)                      SUBJECT: BIOTECHNOLOGY**

UNIT	TOPIC/CHAPTER	MARKS
UNIT-I	Biotechnology: An overview	5
UNIT-II	Molecules of Life	20
UNIT-III	Genetics and Molecular Biology	20
UNIT-IV	Cells and Organisms	25
	Practical	30
	<b>Total</b>	<b>100</b>

Month	No. of Days	No. of Periods	Units/Subunits/Chapters/topics/ to be covered	Details of practical/ project to be given	SPOTTERS /ACTIVITIES	Unit tests/ Assignments
APRIL 2024	22	22+6=28	<b>Unit-I Biotechnology: An overview (5 Marks)</b>  <b>Chapter 1: Biotechnology: An Overview</b>  Historical Perspectives, Technology and Applications of Biotechnology, Global market and Biotech Products.	1. Preparation of buffers and pH determination.		UT-1
JULY 2024	26	26+8=34	<b>Unit-II Molecules of Life (20 Marks)</b>  <b>Chapter 1: Biomolecules: Building Blocks</b>  Building Blocks of Carbohydrates - Sugars and their Derivatives, Building Blocks of Proteins - Amino Acids, Building Blocks of Lipids - Simple Fatty Acids.	2. Sterilization techniques	<ul style="list-style-type: none"> <li>❖ Test for the presence of sugar.</li> <li>❖ Test for the presence of protein.</li> <li>❖ Test for the presence of fat.</li> <li>❖ Detection of amino acids by using chromatography</li> <li>❖ Study of the enzymatic activity of salivary amylase.</li> </ul>	

Month	No. of Days	No. of Periods	Units/Subunits/Chapters/topics/ to be covered	Details of practical/ project to be given	SPOTTERS /ACTIVITIES	Unit tests/ Assignments
AUGUST 2024	22	22+6=28	<p><b>Chapter 1: Biomolecules Building Blocks</b></p> <p>Building Blocks of Lipids - Glycerol and Cholesterol. Building Blocks of Nucleic Acids – Nucleotides.</p> <p><b>Chapter 2: Macromolecules: Structure &amp; Function</b></p> <p>Carbohydrates - The Energy Givers, Proteins-The Performers.</p>	3. Preparation of bacterial growth medium	<p>Observation of Drosophila</p> <p>a. To identify the sex.</p> <p>b. To study contrasting phenotypic traits.</p> <p>c. To study the karyotype of Drosophila.</p>	UT-2
SEPTEMBER 2024	17	17+5=22	<p><b>Chapter 2: Macromolecules: Structure &amp; Function</b></p> <p>Enzymes- The Catalysts, Lipids and Biomembranes-The Barriers, Nucleic Acids - The Managers.</p>	4. Cell counting	<ul style="list-style-type: none"> <li>List out the multiple allelic traits in human beings.</li> <li>Study the % age of recombination of an easily identifiable trait in a colony of Drosophila.</li> </ul>	MID- TERM (TERM-I)
OCTOBER 2024	18	18+6=24	<p><b>Unit-III Genetics and Molecular Biology (20 Marks)</b></p> <p><b>Chapter 1: Concepts of Genetics</b></p> <p>Historical Perspective, Multiple Alleles, Linkage and Crossing Over, Genetic Mapping.</p>			
NOVEMBER 2024	20	20+6=26	<p><b>Chapter 2: Genes and Genomes: Structure and Function</b></p> <p>Discovery of DNA as Genetic Material, DNA Replication, Fine Structure of the Genes, From Gene to Protein, Transcription– The Basic Process, Genetic Code, Translation, Mutations, Human Genetic Disorders.</p>	5. Sugar Estimation using Di Nitro Salicylic Acid test (DNS test)	➤ Isolation of DNA from available plant and animal material.	

Month	No. of Days	No. of Periods	Units/Subunits/Chapters/topics/ to be covered	Details of practical/ project to be given	SPOTTERS /ACTIVITIES	Unit tests/ Assignments
DECEMBER 2024	17	17+5=22	<b>Unit IV: Cells and Organisms (25 Marks)</b>  <b>Chapter 1: The Basic Unit of Life</b>  Cell Structure and Components, Organization of Life.	6. Assay for amylase enzyme	➤ Study of different types of plant and animal cells to compare and contrast their size, shape and structure.	UT-3
JANUARY 2025	15	15+4=19	<b>Chapter 2: Cell Growth and Development</b>  Cell Division, Cell Cycle, Cell Communication, Nutrition, Reproduction, Immune Response in Animals.	7. Protein estimation by biuret method	➤ Study the different stages of mitosis in onion root tip. ➤ Study the different stages of meiosis in flower buds (Rheoplant).	
FEBRUARY 2025	21	21+6=27	FEBRUARY 2025: Practical Exam and Preparation for UT-4 and Annual Exam.			UT-4
MARCH 2025			<b>TERM-END Examination (Annual examination)</b>			<b>TERM-END Exam.</b>

### PRACTICALS

Note: Every student is required to do the following experiments during the academic session.

1. Preparation of buffers and pH determination
2. Sterilization techniques
3. Preparation of bacterial growth medium
4. Cell counting
5. Sugar Estimation using DiNitroSalicylic Acid test (DNS test)
6. Assay for amylase enzyme
7. Protein estimation by biuret method



# **SPLIT UP OF SYLLABUS CLASS XII**

**NAVODAYA VIDYALAYA SAMITI,  
CLASS : XII SUBJECT : ENGLISH**

Unit No	NameofTheChapter/unit	Marks
1	<b>Reading skills–</b> <ul style="list-style-type: none"> <li>unseen passages to assess comprehension</li> <li>unseencase–basedpassage</li> </ul>	20
2	<b>Creating writing skills</b> <ul style="list-style-type: none"> <li>Notice</li> <li>Invitation</li> <li>Letterwriting</li> <li>ReportwritingandArticlewriting</li> </ul>	20
3	<b>Flamingo Vistas:</b>	40
	<b>Total</b>	80
	<b>InternalAssessmen</b>	20
	<b>GrandTotal</b>	100

MONTH	NOOFDAYS	NO OF PERIODS	MainTopicandSub-TopicstobeCovered		Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
			Flamingo/Vistas	Reading & Advance Writing Skills	
APRIL 2024	21	21	<ul style="list-style-type: none"> <li>TheLastLesson (Prose)</li> <li>My Mother at Sixty Six (Poem)</li> <li>The Third Level (Prose)</li> </ul>	UnseenPassage. NoticeandInvitation & Replies (acceptance and regrets ) <b>ASLProject-</b> Imposed Vs self-imposed linguistic Chauvinism in the presentscenarioof academiclifeinthelight of‘The Last lesson’. (Objective- focuses on the necessity to take steps to protect the regional languages from the influence of foreign language)	<b>ReadingSection:</b> PracticeinUnseen comprehension. <b>WritingSection:</b> Shortwritingtask– Notice Notice for Meeting, Notice for events like Competition/Tour/ Celebration/ Annual Sports/Culturaleventsetc.Noticefor Lost and Found. Formal/InformalInvitation and Replies up to 50 words. Invitation Practice work for invitation and Notice Students may be asked to prepare PPTs of Formal and Informal invitation.

MONTH	NO OF DAYS	NO OF PERIODS	Main Topic and Sub-Topic to be Covered		Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
			Flamingo/Vistas	Reading & Advance Writing Skills	
				Assignment- Write a letter to the Editor highlighting/ expressing views on 'linguistic Chauvinism in the present scenario of academic life' Art Integrated Project – Based on the poem ' My Mother at Sixty Six' Assignment- Create a flow chart to expand story of 'The Third Level'/ of events in the story.	Practice of drafting Invitation for different occasions and their replies.  The students may be asked to write diary entry on a day when they were not prepared for test. Assessment Tool; Presentation by the students.
PWT-I 26-29 April 2024					
JULY 2024	26	26	1. Lost Spring 2. Keeping Quiet 3. The Tiger King	I. Unseen passage to assess Comprehension, interpretation and inference.  .Unseen passages ; case-based passage with verbal/ visual inputs like statistical data, charts etc.	Activities; <ul style="list-style-type: none"> <li>• Practice on Unseen passage to assess comprehension, interpretation and inference</li> <li>• Practice on Unseen case- based passage with verbal/visual inputs like statistical data, charts etc</li> <li>• Discussion on Health hazards of Child Labour.</li> <li>• Poster on Child labour.</li> <li>• Visit the School of slum areas of locality talk to the students, teachers and their parents about the facilities provided to the students. Collect the data regarding facilities and on the basis of collected data write an article on "The Plight of the Students of Slum Areas" in about 120-150 words. Collect the data regarding government and NGOs activities to save tigers in India with the help of internet and library..</li> </ul> Article writing on Child Labour .Discussion on Question Answer
AUGUST			<ul style="list-style-type: none"> <li>• Deep water</li> <li>• The Rattrap</li> </ul>	<ul style="list-style-type: none"> <li>• Letter writing: Letter Based On Verbal</li> </ul>	Activities ; <ul style="list-style-type: none"> <li>• Collect letters to Editors from the</li> </ul>

MONTH	NO OF DAYS	NO OF PERIODS	Main Topic and Sub-Topic to be Covered		Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
			Flamingo/Vistas	Reading & Advance Writing Skills	
	22	22	(Prose) • A Thing Of Beauty (Poem) • Journey To The End of The Earth (Prose)	/Visual Input. Application for job with bio data or resume. Letter to the Editor giving suggestion or opinion on issues of public interest.	columns of newspapers. • Understated the tone, style and organization .students will write letters to the Editor of a leading newspaper highlighting social/ political/ current issues. Teacher will collect the letters and discuss the content, tone, style, organization coherence etc. of each letter- • Browse the internet to find out at least 100 things of beauty and 100 things that cause suffering and pain. Enlist them and write. • Find the personalities and events from the history of sports, music dance etc. which proves that practice makes a man perfect. For example life of Sachin Tendulkar Sudha chandran etc. • Discussion on Question Answer Assessment Tool: Oral Test
<b>PWT-II 08-10 AUGUST 2024</b>					
SEPTEMBER 2024	17	19	1- Indigo (Prose) 2- Poets and Pancakes (Prose) 3- A Roadside Stand (Poem) The Enemy	Article /Report writing, descriptive and analytical in nature based on verbal inputs.	4) Browse internet to get more information regarding film studio history Documentary film on Gandhi ji showing contribution on Indian National Movement may be shown. Students may be asked to write the Articles based on the Verbal inputs. 5) Practice of Speaking and Listening skills. 6) Students may be asked to read the Editorial columns of newspapers. Visual input/ verbal inputs may be given for writing letter to the Editor. 7) Write a report on the village market and super markets. Write your point of you on the decision taken by Dr. Sadao Write imaginary dialogues between Dr.

MONTH	NO OF DAYS	NO OF PERIODS	Main Topic and Sub-Topic to be Covered		Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
			Flamingo/Vistas	Reading & Advance Writing Skills	
					Sadao and his wife on whether to save American soldier or not. Assessment Tool; 1.Oral Test 2. Written class test. 3. Group discussion on the prevalent issues. 4.Discussion on Question Answer
<b>Term I- 23 SEPTEMBER TO 04 OCTOBER 2024</b>					
OCTOBER 2024	17	19	<ul style="list-style-type: none"> <li>The Interview (Prose)</li> <li>Aunt Jennifer's Tigers (Poem)</li> <li>Going Places (Prose)</li> <li>On the face of It.</li> </ul>	1. Discussion and practice of Unseen passages 2. Discussion and practice on Report writing.	Collect reports from newspapers and rewrite them. Videos/ newspaper clippings may be shown to write reports following journalism expressions. Find the difference of present day women to Aunt Jennifer's as described in the poem Aunt Jennifer's tigers. Write an essay on the topic Fortune favours the Brave Discussion on the stories of minority heroes may be discussed Project work to be assigned.
NOVEMBER 2024	20	20	<ul style="list-style-type: none"> <li>Memories of Childhood</li> <li>The Cutting of My Long Hair</li> <li>We Too Are Human Beings</li> </ul>	1 Practice and revision of writing skills 3. ASL Practice.	The students may be given practice in writing various types of Reports. Group discussion on Condition of Women in the contemporary society, Gender Discrimination & Things that hurt disabled people Write an essay on the topic Fortune favours the Brave Discussion on the stories of minority heroes may be discussed
DEC 2024 / JAN. 2025				<ul style="list-style-type: none"> <li>Discussion and practice of unseen passages. Practice of Notice, Invitation, Letters and Report writing.</li> </ul> Project work	
1 <sup>st</sup> Pre Board ( 4-14 December 2024) 2 <sup>nd</sup> Pre Board (20-30 January 2025)					

NAVODAYA VIDYALAYA SAMITI

CLASS: 12

SUBJECT: हिन्दी

SUBJECT CODE:302

इकाई सं	इकाई / पाठकानाम	उप-भारांक	भारांक
<b>खंडअ ( वस्तुपरकप्रश्न )</b>			
	<b>अपठितगद्यांश</b>		
1.	7) एकअपठितगद्यांश (अधिकतम 300 शब्दोंका) (1 अंक x 10 प्रश्न)	10	15
	8) दोअपठितपद्यांशोंमेंसेकोईएकपद्यांश ( अधिकतम (150 शब्दोंका) (1 अंक x 5 प्रश्न)	5	
2.	<b>पाठ्यपुस्तकअभिव्यक्तिऔरमाध्यमकीइकाईएकसेपाठसंख्या 3,4 तथा 5 परआधारित</b> • बहुवैकल्पिकप्रश्न (1 अंक x 5 प्रश्न)	5	5
3.	<b>पाठ्यपुस्तकआरोहभाग -2 सेबहुविकल्पात्मकप्रश्न</b> • पठितकाव्यांशपरपाँचबहुविकल्पीप्रश्न ( 1 अंक x 05 प्रश्न ) • पठितगद्यांशपरपाँचबहुविकल्पीप्रश्न ( 1 अंक x 05 प्रश्न )	5 5	10
4.	<b>पूरकपाठ्यपुस्तकवितानभाग -2 सेबहुविकल्पीप्रश्न</b> • पठितपाठोंपरदसबहुविकल्पीप्रश्न ( 1 अंक x 10 प्रश्न )	10	10
<b>खंड-ब ( वर्णनात्मकप्रश्न )</b>			

5.	<p>पाठ्यपुस्तक, अभिव्यक्ति और माध्यम से सृजनात्मक लेखन और व्यावहारिक लेखन पाठ संख्या 3, 4, 5, 11, 12 तथा 13 पर आधारित।</p> <ul style="list-style-type: none"> <li>• दिये गए चार अप्रत्याशित विषयों से किसी एक विषय पर लगभग 120 शब्दों में रचनात्मक लेखन (6 अंक x 1 प्रश्न)</li> <li>• कहानी कानाट्यरूपांतरण/रेडियो नाटक/अप्रत्याशित विषयों पर लेखन पर आधारित दो प्रश्न (3 अंक x 2 प्रश्न) ( विकल्प सहित ) ( लगभग 60 शब्दों में )</li> <li>(iii) पत्रकारिता और जनसंचार माध्यमों के लिए लेखन पर आधारित तीन में से दो प्रश्न ( 4 अंक x 2 प्रश्न ) ( विकल्प सहित ) ( लगभग 80 शब्दों में )</li> </ul>	6	6	20	
6.	<p>पाठ्यपुस्तक आरोह भाग 2-</p> <ul style="list-style-type: none"> <li>• काव्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर ( लगभग 60 शब्दों में ) ( 3 अंक x 2 प्रश्न )</li> <li>• काव्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर ( लगभग 40 शब्दों में ) ( 2 अंक x 2 प्रश्न )</li> <li>• गद्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर ( लगभग 60 शब्दों में ) ( 3 अंक x 2 प्रश्न )</li> <li>• गद्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर ( लगभग 40 शब्दों में ) ( 2 अंक x 2 प्रश्न )</li> </ul>	6	4	6	20
7.	<ul style="list-style-type: none"> <li>• श्रवण एवं वाचन  </li> <li>• परियोजना कार्य  </li> </ul>	10	10	20	
	<b>कुल</b>	100		<b>100</b>	

#### प्रस्तावित पुस्तकें

- आरोह भाग -2, एन. सी. ई. आर. टी., नई दिल्ली द्वारा प्रकाशित
- वितान भाग - 2, एन .सी.ई .आर .टी ., नई दिल्ली द्वारा प्रकाशित
- अभिव्यक्ति और माध्यम एन .सी .ई .आर .टी., नई दिल्ली द्वारा प्रकाशित

#### हटाए गए पाठ :

गद्य खंड: सहर्ष स्वीकारा है।, गज़ल (फिराक गोरखपुरी),

पद्य खंड: चार्ली चाप्लिन यानी हम सब, नमक । वितान : ऐन फ्रैंक – डायरी के पन्ने ।

( सी बी एस ई पाठ्यक्रम 2023-24 पर आधारित )

पाठ्यक्रम विभाजन – सत्र 2024-25 (हिंदी आधार – कक्षा बारहवीं )

माह	दिन	कालांश	पाठ / उप-पाठ का नाम			क्रिया –कलाप / परियोजना कार्य
			आरोह भाग – एक	वितान भाग – एक	अभिव्यक्ति और माध्यम/ रचनात्मक लेखन	
अप्रैल, 2024	24	28	<b>गद्य खंड:</b> भक्तितन – महादेवी वर्मा <b>पद्य खंड:</b> <ul style="list-style-type: none"> <li>○ आत्मपरिचय</li> <li>○ एक गीत – हरिवंशराय बच्चन</li> </ul>	सिल्वर वेडिंग - मनोहर श्याम जोशी	विभिन्न माध्यमों के लिए लेखन	पीढ़ी का अंतराल - वादविवाद
<b>प्रथम इकाई परीक्षा</b>						
जुलाई, 2024	26	30	<b>गद्य खंड:</b> V) बाज़ार दर्शन – जैनेन्द्र कुमार VI) काले मेघा पानी दे- धर्मवीर भारती <b>पद्य खंड :</b> <ul style="list-style-type: none"> <li>● पतंग - आलोक धन्वा</li> <li>● कविता के बहाने – कुंवर नाराय</li> <li>● बात सीधी थी - कुंवर नारायण</li> </ul>	सिल्वर वेडिंग - मनोहर श्याम जोशी	अपठित गद्यांश अपठित पद्यांश	उपभोक्तावादी संस्कृति एवं उसके समाज पर दुष्प्रभाव -परिचर्चा ‘पानी बचाओ’विषय से जुड़े विज्ञापनों का संकलन।
अगस्त 2024	25	28	<b>गद्य खंड:</b> <ul style="list-style-type: none"> <li>● पहलवान की ढोलक – - फणीश्वरनाथ रेणु</li> </ul> <b>पद्य खंड:</b> <ul style="list-style-type: none"> <li>vi) कैमरे में बंद अपाहिज - रघुवीर सहाय</li> <li>vii) उषा - शमशेर बहादुर सिंह</li> </ul>	जूझ - आनंद यादव	कैसे करें कहानी का नाट्य रूपांतरण, कैसे बनता है रेडियो नाटक, नए और अप्रत्याशित विषयों पर लेखन	प्राचीन काल एवं आधुनिक काल के खेलों को सूचीबद्ध करना।
<b>द्वितीय इकाई परीक्षा</b>						



सितंबर, 2024	17	19	<p><b>पद्य खंड:</b></p> <ul style="list-style-type: none"> <li>बादल राग - सूर्यकांतत्रिपाठी निराला</li> <li>कवितावली - तुलसीदास</li> <li>लक्ष्मण मूर्छा एवं राम का विलाप-तुलसीदास</li> </ul> <p><b>गद्य खंड:</b></p> <ul style="list-style-type: none"> <li>शिरीष के फूल - हज़ारी प्रसाद द्विवेदी</li> </ul>	अतीत में दबे पांव – ओम थानवी	पुनरावृत्ति	तुलसीदास के साहित्य में प्रयुक्त छंद व काव्य रूपों की सूची बनाना। <b>प्रथम सत्रांक परीक्षा</b>
अक्टूबर, 2024	21	24	<p><b>पद्य खंड:</b></p> <ul style="list-style-type: none"> <li>रुबाइयां- फिराक गोरखपुरी</li> <li>छोटा मेरा खेत-उमाशंकर जोशी पुनरावर्तन</li> </ul>		पत्रकारीय लेखन के विभिन्न रूप और लेखन प्रक्रिया।	विद्यार्थियों द्वारा देखे गए किसी ऐतिहासिक स्थल की परिचर्चा।
नवंबर, 2024	20	23	<p><b>गद्य खंड:</b></p> <ul style="list-style-type: none"> <li>श्रम विभाजन और जाति प्रथा</li> <li>मेरी कल्पना का आदर्श समाज-भीमराव अम्बेडकर</li> </ul> <p><b>पद्य खंड:</b></p> <p>बगुलों के पंख-उमाशंकर जोशी</p>		विशेष लेखन - स्वरूप और प्रकार।	अंबेडकर की कल्पना में आदर्श समाज -- वादविवाद।
दिसंबर 2024				पुनरावृत्ति <b>प्री-बोर्ड प्रथम</b>		
जनवरी 2025				प्रीबोर्ड द्वितीय		

**NAVODAYA VIDYALAYA SAMIT**  
**Split up of syllabus 2024-25**

CLASS: XII

SUBJECT: MATHEMATICS

UNIT	Name of The Units	No .of Periods	Marks
I	RELATIONS AND FUNCTIONS	30	08
II	ALGEBRA	50	10
III	CALCULUS	80	35
IV	VECTORS & THREE-DIMENSIONAL GEOMETRY	30	14
V	LINEAR PROGRAMMING	20	05
VI	PROBABILITY	30	08
	TOTAL	240	80
	<b>Internal Assessment (20Marks)</b>		
	A.Unit Tests (Best 2 out of 3 tests conducted) (10 Marks)		
	B. Mathematics Activities (10 Marks)		
	1.The activities performed by the student throughout the year end record keeping (05 Marks)		20
	2.Assessment of the activity performed during the year end test (03 Marks)		
	3.Viva-voce (02 Marks)		
	Grand Total		100

SPLIT-UP SYLLABUS

MONTH	No. of Days	No. of Periods	Main topic and sub-topics to be covered	Activities/ Projects/Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
APRIL 2024		25	<p><b>UNIT III ALGEBRA</b></p> <p><b>MATRICES:</b></p> <p>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 whose product is the zero matrix (restrict to square matrices of order 2). Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries).</p>	<p><b>Activity -1</b></p> <p>Word problems based on matrices. Formatting of matrix. Finding the solution by using matrix method.</p>
	22	<p><b>DETERMINANTS:</b></p> <p>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. 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.</p>	<p>UNIT TEST-1 FROM (26-04-24 TO 29-04—24)</p>	

MONTH	No. of Days	No. of Periods	Main topic and sub-topics to be covered	Activities/ Projects/Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
JULY,2024	26	15	<b>UNIT I (RELATIONS AND FUNCTIONS)</b> <b>RELATIONS AND FUNCTIONS</b> Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions.	Activity -2 To demonstrate a function which is one - one not onto
		15	<b>INVERSE TRIGONOMETRIC FUNCTIONS:</b> Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions.	
		20	<b>UNIT III-CALCULUS</b> <b>CONTINUITY AND DIFFERENTIABILITY:</b> Continuity and differentiability, chain rule, derivatives of inverse trigonometric functions like $\sin^{-1} x$ , $\cos^{-1} x$ and $\tan^{-1} x$ , derivative of implicit functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second order derivatives.	Activity -3 To explore the principal value of the function $\sin^{-1}x$ using a unit circle
AUGUST 2024	22	20	<b>APPLICATIONS OF DERIVATIVES:</b> 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). Simple problems (that illustrate basic principles and understanding of the subject as well as real-life situations). <b>INTEGRALS:</b> Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals of the following types and problems based on them. $\int \frac{dx}{x^2 \pm a^2}, \int \frac{dx}{\sqrt{x^2 \pm a^2}}, \int \frac{dx}{\sqrt{a^2 - x^2}}, \int \frac{dx}{ax^2 + bx + c}, \int \frac{dx}{\sqrt{ax^2 + bx + c}}$ $\int \frac{px + q}{ax^2 + bx + c} dx, \int \frac{px + q}{\sqrt{ax^2 + bx + c}} dx, \int \sqrt{a^2 \pm x^2} dx, \int \sqrt{x^2 - a^2} dx$ $\int \sqrt{ax^2 + bx + c} dx, \int (px + q)\sqrt{ax^2 + bx + c} dx$ Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals.	Activity -4 To find analytically the limit of function $f(x)$ at $x = c$ and also to check the continuity of the function at that point. Activity -5 To Understand the concept of decreasing and increasing functions Activity -6 To understand the concepts of local minima, local maxima and point of inflection

UNIT TEST-2 FROM (08-08-23 TO 10-08-23)

MONTH	No. of Days	No. of Periods	Main topic and sub-topics to be covered	Activities/ Projects/Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
SEPTEMBER 2024	16	15	<b>APPLICATIONS OF THE INTEGRALS:</b>  Applications in finding the area under simple curves, especially lines, circles/parabolas/ellipses (in standard form only).  <b>DIFFERENTIAL EQUATIONS:</b>  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. Solutions of linear differential equation of the type $\frac{dy}{dx}+py=q$ , where p and q are functions of x or constants. $\frac{dx}{dy}+px=q$ , where p and q are functions of y or constants.	Activity -7 To construct an open box of maximum volume from a given rectangular sheet by cutting equal squares from each corner.
		15	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. Solutions of linear differential equation of the type $\frac{dy}{dx}+py=q$ , where p and q are functions of x or constants. $\frac{dx}{dy}+px=q$ , where p and q are functions of y or constants.	
<b>TERM I EXAMINATION (23-09-24 TO 03-10-24) UPTO SEPTEMBER PORTION</b>				
OCTOBER 2024	18	10	<b>UNIT V</b> <b>LINEAR PROGRAMMING:</b> 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 (up to three non-trivial constraints).	Activity -8 To verify geometrically that $\overline{c} \times (\overline{a} + \overline{b}) = \overline{c} \times \overline{a} + \overline{c} \times \overline{b}$
		15	<b>UNIT:IV</b> <b>VECTOR ALGEBRA:</b>  Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of a vector. Types of vectors (equal, unit, zero, parallel and collinear 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. Definition, Geometrical Interpretation, properties and application of scalar (dot) product of vectors, vector (cross) product of vectors.	

MONTH	No. of Days	No. of Periods	Main topic and sub-topics to be covered	Activities/ Projects/Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
NOV-24	20	15  30	<p><b>THREE-DIMENSIONAL GEOMETRY:</b> Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, skew lines, shortest distance between two lines. Angle between two lines.</p> <p><b>PROBABILITY:</b> Conditional probability, multiplication theorem on probability, independent events, total probability, Bayes' theorem, Random variable and its probability distribution, mean of random variable.</p>	<p>Activity -9 To demonstrate the shortest distance between two lines.</p> <p>Activity -10 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.</p>
DECEMBER2024/ JANUARY 2025			<p><b>REVISION ( PRACTICE PAPERS )</b> <b>PRE-BOARD I AND II</b> <b>CBSE EXAMS AS PER THE SCHEDULE</b></p>	

**Prescribed Books:**

- Mathematics Part I - Textbook for Class XII, NCERT Publication
- Mathematics Part II - Textbook for Class XII, NCERT Publication
- Mathematics Exemplar Problem for Class XII, Published by NCERT
- Mathematics Lab Manual class XII, published by NCERT  
<http://www.ncert.nic.in/exemplar/labmanuals.html>

**Note:**

The activities listed above are suggestive only. Teachers are advised to refer the Lab Manual for class XII, published by CBSE. Throughout the year any 10 activities shall be performed by the student from the activities given in the Lab Manual.

**NAVODAYA VIDYALAYA SAMITI**

**CLASS: XII**

**SUBJECT:PHYSICS**

**SUBJECT CODE: 042**

UnitNo	NameofTheChapter/unit	Periods	Marks
1	<b>Electrostatics</b>	26	16
	Chapter-1:ElectricchargesandFields		
	Chapter-2:ElectrostaticPotentialandCapacitance		
2	<b>CurrentElectricity</b>	18	
	Chapter-3:CurrentElectricity		
3	<b>MagneticeffectsofcurrentandMagnetism</b>	25	17
	Chapter-4:MovingChargesandMagnetism		
	Chapter-5:MagnetismandMatter		
4	<b>ElectromagneticInductionandAlternatingCurrents</b>	24	17
	Chapter-6:ElectromagneticInduction		
	Chapter-7:AlternatingCurrents		
5	<b>Electromagneticwaves</b>	04	18
	Chapter-8:ElectromagneticWaves		
6	<b>Optics</b>	30	18
	Chapter-9:RayOpticsandOpticalInstruments		
	Chapter-10:WaveOptics		
7	<b>DualNatureofRadiationandMatter</b>	8	12
	Chapter-11:DualNatureofRadiationandMatter		
8	<b>AtomsandNuclei</b>	15	7
	Chapter-12:Atoms		
	Chapter-13:Nuclei		
9	<b>ElectronicDevices</b>	10	7
	Chapter-14:semiconductor Electronics:Materials,Devicesandsimplecircuits		
	<b>Total</b>	160	70
	Practical/InternalAssessment		30
	GrandTotal		100

Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/ Chapter	Units/Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/ Projects to be given	Unit Tests /Formative Tests/ Assignment
APRIL 2024	22	26	16	<p><b>Unit I: Electrostatics:</b></p> <p><b>Chapter–1: Electric Charges and Fields</b>                      Electric charges, Conservation of charge, Coulomb's law-force between two point charges, forces between multiple charges; superposition principle and continuous charge distribution. Electric field, 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. 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).</p> <p><b>Chapter–2: Electrostatic Potential and Capacitance</b>                      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)</p>	<p><b>Experiments : 1&amp;2</b>                      ( 1. Determine Resistivity of wires using V-I curve                      2. Determine the Resistance of a given wire using Meter bridge )</p> <p><b>Activity:1</b>                      To assemble the house hold circuit comprising 3 bulbs, 3 switches , a fuse and a power source</p>	<p><b>Unit Test-1 /Assignment - 1</b>                      (Related to Electrostatics)</p>



Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/ Chapter	Units/Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/ Projects to be given	Unit Tests /Formative Tests/ Assignment
JULY 2024	24	18	17	<p><b>UnitII: CurrentElectricity:</b></p> <p><b>Chapter–3:CurrentElectricity</b></p> <p>Electric current, flow of electric charges in a metallicconductor, drift velocity, mobility and their relationwith electric current; Ohm's law, V-I characteristics(linear and non-linear), electrical energy and power,electricalresistivityandconductivity,temperaturedependenceofresistance, Internalresistanceofacell,potential difference and emf of a cell, combination ofcellsinseriesandinparallel,Kirchhoff's rules,Wheatstonebridge</p>	<p><b>Experiment s: 3&amp;4</b></p> <p>3. Verify the laws of combination of R's in series or Parallel using Meter bridge</p> <p>4. Determine the resistance of a galvanomete r by half deflection method and to find its figure of merit</p>	<p><b>Assignme nt-2</b></p> <p>Based on Current Electricity</p>
		12		<p><b>Unit III: Magnetic Effects of Current and Magnetism</b></p> <p><b>Chapter–4: Moving Charges and Magnetism</b> Concept of magnetic field, Oersted's experiment. Biot - Savart law and its application to current carrying circular loop. 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. Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-definition of ampere.</p>		

Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/Chapter	Units/Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/ Projects to be given	Unit Tests /Formative Tests/ Assignment
AUGUST 2024	25	13		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. 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. Magnetic properties of materials- Para-, dia- and ferro - magnetic substances with examples, Magnetization of materials, effect of temperature on magnetic properties	<p><b>Experiment s: 5&amp;6</b> ( 5. Find the refractive index of the material of a glass slab using travelling microscope 6. .Find the focal length of a concave mirror u.. v method )</p> <p><b>Activity: 3&amp;4</b> To measure the resistance ,voltage (AC/DC/), Current (AC/DC) and check continuity of a given circuit using multi meter To identify a diode , LED, a resistor and a capacitor from a mixed collection of such items .</p>	Unit Test-2  <b>Assignment-3</b> (Based on Magnetism )
		18		<p><b>Chapter-5: Magnetism and Matter</b> 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. Magnetic properties of Materials- Para-, dia- and ferro - magnetic substances with examples, Magnetization of materials, effect of Temperature on magnetic properties</p>		

Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/Chapter	Units/Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/ Projects to be given	Unit Tests /Formative Tests/ Assignment
SEPTEMBER 2024	24	6	18	power in AC circuits, power factor, wattles current. AC generator, Transformer	<p><b>Experiment: 7&amp;8</b></p> <p>7. Find the focal length of a convex lens by plotting <math>u-v</math> or <math>1/u - 1/v</math> graph</p> <p>8. Find the focal length of a concave lens using convex lens – contact method</p> <p>( As per the availability of apparatus teachers can arrange other experiments from the list given by CBSE)</p> <p><b>Activities: 5</b> Observe the diffraction of a single slit</p>	<p><b>Term Test-1</b></p> <p><b>Assignment -4:</b> Based on optics</p>
		4		<p><b>Unit V: Electromagnetic waves Chapter–8: Electromagnetic Waves</b> Basic idea of displacement Current, Electromagnetic waves, their characteristics, their transverse nature (qualitative idea only) Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.</p> <p><b>Unit VI: Optics Chapter–9: Ray Optics and Optical Instruments</b> <b>Ray Optics:</b> Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and optical fibers, 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. Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers</p>		

Month	No. of Days	No. of Periods	Weightage of Marks for the Unit/Chapter	Units/Subunits/ Topics/Chapters to be Covered	Details of Activity/Practical/ Projects to be given	Unit Tests /Formative Tests/ Assignment
OCTOBER 2024	16	10 8 2	12	<p><b>Chapter–10: Wave optics:</b> 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), coherent sources and sustained interference of light, diffraction due to a single slit, width of central maxima (qualitative treatment only).</p> <p><b>Unit VII: Dual Nature of Radiation and Matter</b> <b>Dual Nature of Radiation and Matter</b> <b>Chapter–11: Dualnatureofradiation:</b> Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light. Experimental study of photoelectric effect. Matter waves-wavenature of particles, de-Broglie relation.</p> <p><b>Unit VIII: Atoms And Nuclei</b> <b>Chapter–12: Atoms:</b> Alpha-particles scattering experiment; Rutherford's model of atom;</p>	<p><b>Activity:6</b> Observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab</p>	



**PRACTICALS**

Total Periods 6

The record to be submitted by the students at the time of their annual examination has to include:

8. Record of at least 8 Experiments [with 4 from each section], to be performed by the students.
9. Record of at least 6 Activities [with 3 each from section A and section B], to be performed by the students.
10. The Report of the project carried out by the students.

**EVALUATION SCHEME**

**MAX. MARKS: 30**

**Time 3 hours**

Two experiments one from each section	7+7 Marks
Practical record [experiments and activities]	5 Marks
One activity from any section	3 Marks
Investigatory Project	3 Marks
Viva on experiments, activities and project	5 Marks
Total	30 marks

**SECTION-A**

**Experiments**

- a. To determine resistivity of two / three wires by plotting a graph for potential difference versus current.
- b. To find resistance of a given wire / standard resistor using metre bridge.
- c. To verify the laws of combination (series) of resistances using a metre bridge.  
**OR**  
To verify the laws of combination (parallel) of resistances using a metre bridge  
To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.
- d. To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same.  
**OR**  
To convert the given galvanometer (of known resistance and figure of merit) into an ammeter of desired range and to verify the same.
- e. To find the frequency of AC mains with a Sonometer.

**Activities**

11. To measure the resistance and impedance of an inductor with or without iron core.
12. To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using a multi meter.
13. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source.
14. To assemble the components of a given electrical circuit.
15. To study the variation in potential drop with length of a wire for a steady current.
16. To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order.

and correct the circuit and also the circuit diagram.

### SECTION-B

#### Experiments

17. To find the value of  $v$  for different values of  $u$  in case of a concave mirror and to find the focal length.
18. To find the focal length of a convex mirror, using a convex lens.
19. To find the focal length of a convex lens by plotting graphs between  $u$  and  $v$  or between  $1/u$  and  $1/v$ .
20. To find the focal length of a concave lens, using a convex lens.
21. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
22. To determine refractive index of a glass slab using a travelling microscope.
23. To find the refractive index of a liquid using a convex lens and a plane mirror.
24. To find the refractive index of a liquid using a concave mirror and a plane mirror.
25. To draw the I-V characteristic curve for a p-n junction diode in forward and reverse bias.

#### Activities

26. To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items.
27. Use of multi meter to see the unidirectional flow of current in case of a diode and an LED and check whether a given electronic component (e.g., diode) is in working order.
28. To study effect of intensity of light (by varying distance of the source) on an LDR.
29. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.
30. To observe diffraction of light due to a thin slit.
31. To study the nature and size of the image formed by a (i) convex lens, or (ii) concave mirror, on a screen by using a candle and a screen (for different distances of the candle from the lens/mirror).
32. To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses.

#### Suggested Investigatory Projects

1. To study various factors on which the internal resistance/EMF of a cell depends.
2. To study the variations in current flowing in a circuit containing an LDR because of a variation in
  - a. the power of the incandescent lamp, used to 'illuminate' the LDR (keeping all the lamps at a fixed distance).
  - b. the distance of an incandescent lamp (of fixed power) used to 'illuminate' the LDR.
3. To find the refractive indices of (a) water (b) oil (transparent) using a plane mirror, a concave lens (made from a glass of known refractive index) and an adjustable object needle.
4. To investigate the relation between the ratio of (i) output and input voltage and (ii) number of turns in the secondary coil and primary coil of a self-designed transformer.
5. To investigate the dependence of the angle of deviation on the angle of incidence using a hollow prism filled one by one, with different transparent fluids.
6. To estimate the charge induced on each one of the two identical Styrofoam (or pith) balls suspended in a vertical plane by making use of Coulomb's law.
7. To study the factor on which the self-inductance of a coil depends by observing the effect of this coil, when put in series with a resistor/(bulb) in a circuit fed up by an A.C. source of adjustable frequency.
8. To study the earth's magnetic field using a compass needle - bar magnet by plotting

magnetic field lines and tangent galvanometer.

Practical Examination for Visually Impaired Students of Classes XII Evaluation Scheme

Time 2 hours

Max. Marks: 30

Identification/Familiarity with the apparatus	5 marks
Written test (based on given/prescribed practicals)	10 marks
Practical Record	5 marks
Viva	10 marks
Total	30 marks

### **General Guidelines**

1. The practical examination will be of two-hour duration.
2. A separate list of ten experiments is included here.
3. The written examination in practical for these students will be conducted at the time of practical examination of all other students.
4. The written test will be of 30 minutes duration.
5. The question paper given to the students should be legibly typed. It should contain a total of 15 practical skill based very short answer type questions. A student would be required to answer any 10 questions.
6. A writer may be allowed to such students as per CBSE examination rules.
7. All questions included in the question papers should be related to the listed practical. Every question should require about two minutes to be answered.
8. These students are also required to maintain a practical file. A student is expected to record at least five of the listed experiments as per the specific instructions for each subject.
9. These practical should be duly checked and signed by the internal examiner.
10. The format of writing any experiment in the practical file should include aim, apparatus required, simple theory, procedure, related practical skills, precautions etc.
11. Questions may be generated jointly by the external/internal examiners and used for assessment.
12. The viva questions may include questions based on basic theory/principle/concept, apparatus/materials/chemicals required, procedure, precautions, sources of error etc.

### **Class XII**

A. Items for Identification/ familiarity with the apparatus for assessment in practical (All experiments)  
 Meter scale, general shape of the voltmeter/ammeter, battery/power supply, connecting wires, standard resistances, connecting wires, voltmeter/ammeter, meter bridge, screw gauge, jockey Galvanometer Resistance Box, standard Resistance, connecting wires, Potentiometer, jockey, Galvanometer, Leclanché cell, Daniell cell [simple distinction between the two vis-à-vis their outer (glass and copper) containers], rheostat connecting wires, Galvanometer, resistance box, Plug-in and tapping keys, connecting wires battery/power supply, Diode, Resistor (Wire-wound or carbon ones with two wires connected to two ends), capacitors (of two types), Inductors, Simple electric/electronic bell, battery/power supply, Plug-in and tapping keys Convex lens, concave lens, convex mirror, concave mirror, Core/hollow wooden cylinder, insulated wire ferromagnetic rod, Transformer core, insulated wire.

### **List of Practicals**

- To determine the resistance per cm of a given wire by plotting a graph between voltage and current.



- To verify the laws of combination (series/parallel combination) of resistances by Ohm's law.
- To find the resistance of a given wire/standard resistor using a meter bridge.
- To determine the resistance of a galvanometer by half-deflection method.
- To identify a resistor, capacitor, inductor and diode from a mixed collection of such items.
- To observe the difference between
  - a convex lens and a concave lens
  - a convex mirror and a concave mirror and to estimate the likely difference between the power of two given convex/concave lenses.
- To design an inductor coil and to know the effect of
  - change in the number of turns
  - Introduction of ferromagnetic material as its core material on the inductance of the coil.
- To design a (i) step up (ii) step down transformer on a given core and know the relation between its input and output voltages.

Note: The above practicals may be carried out in an experiential manner rather than recording observations.

**Prescribed Books:**

1. Physics, Class XI, Part-I and II, Published by NCERT.
2. Physics, Class XII, Part-I and II, Published by NCERT.
3. Laboratory Manual of Physics for class XII Published by NCERT.
4. The list of other related books and manuals brought out by NCERT (consider multimedia also).

**Note:** The content indicated in NCERT textbooks as excluded for the year 2024-25 is not to be tested by schools and will not be assessed in the Board examinations 2024-25.

## NAVODAYA VIDYALAYA SAMITI

**CLASS: XII**

**SUBJECT: Chemistry**

**SUBJECT CODE: 043**

Unit No	Name of The Chapter/ unit	Marks	Periods
1	Solutions	7	15
2	Electrochemistry	9	18
3	Chemical kinetics	7	15
4	d and f block elements	7	18
5	Coordination compounds	7	18
6	Haloalkanes and Haloarenes	6	15
7	Alcohols, Phenols and Ethers	6	14
8	Aldehydes, Ketones and Carboxylic acids	8	15
9	Amines	6	14
10	Biomolecules	7	18
	<b>Total</b>	<b>70</b>	<b>160</b>
	Practical Assessment	30	--
	<b>Grand Total</b>	<b>100</b>	<b>--</b>

### PRACTICALS

**Time Allowed: 03 Hours**

**Max.Marks:30**

Evaluation Scheme	Marks
I. Volumetric Analysis	08 Marks
II. Salt Analysis	08 Marks
III. Content based experiment	06 Marks
IV. Record + Viva	04 Marks
V. Project + Viva	04 Marks
<b>Total</b>	<b>30 Marks</b>

MONTH	NO OF DAYS	NO. OF PERIODS	Weightage of Marks for the Unit/ Chapter	Main Topic and Sub-Topics to be Covered	Activities/Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)	TESTS Periodic / Term /Pre-Board/ Revision/ Annual Exam
APRIL	26	15 7 18 9		<p><b>Unit I: Solutions</b> 15 Periods Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, Raoult's law, colligative properties - relative lowering of vapour pressure, elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass, Van't Hoff factor.</p> <p><b>Unit II: Electrochemistry</b> 18 Periods Redox reactions, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, Relation between Gibbs energy change and EMF of a cell, conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and law of electrolysis (elementary idea), dry cell-electrolytic cells and Galvanic cells, lead accumulator, fuel cells, corrosion.</p>	<p>1. Determination of concentration/ molarity of <math>\text{KMnO}_4</math> solution by titrating it against a standard solution of: (a) Oxalic acid, (b) Ferrous Ammonium Sulphate (Students will be required to prepare standard solutions by weighing themselves).</p> <p>2. Variation of cell potential in <math>\text{Zn}/\text{Zn}^{2+}/\text{Cu}^{2+}/\text{Cu}</math> with change in concentration of electrolytes (<math>\text{CuSO}_4</math> or <math>\text{ZnSO}_4</math>) at room temperature.</p> <p>3. (a) Preparation of one lyophilic and one lyophobic sol Lyophilic sol - starch, egg albumin and gum Lyophobic sol - aluminium hydroxide, ferric hydroxide, arsenous sulphide.</p>	<p><b>PWT 1 / UT 1</b> <b>(26-29 APRIL 2024)</b></p>

JULY	24	15	7	<p><b>Unit III:Chemical Kinetics15 Periods</b>                      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,                      integrated rate equations and half-life (only for zero and first order reactions), concept of collision theory (elementary idea, no mathematical treatment), activation energy, Arrhenius equation.</p>	<p>4 (a) Effect of concentration and temperature on the rate of reaction between Sodium Thiosulphate and Hydrochloric acid.                      (b) Study of reaction rates of any one of the following: (i) Reaction of Iodide ion with Hydrogen Peroxide at room temperature using different concentrations of Iodide ions.                      (ii) Reaction between Potassium Iodate, (KIO<sub>3</sub>) and Sodium Sulphite: (Na<sub>2</sub>SO<sub>3</sub>) using starch solution as an indicator (clock reaction).</p>
		18	7	<p><b>Unit IV: d and f Block Elements 18 Periods</b>                      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, magnetic properties, interstitial compounds, alloy formation, preparation and properties of K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> and KMnO<sub>4</sub>. Lanthanoids – Electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction and its consequences. Actinoids - Electronic configuration, oxidation states and comparison with lanthanoids.</p>	<p>5. Qualitative analysis                      Determination of one anion and one cation in a given salt (03 salts per month or more)                      Cation: Pb<sup>2+</sup>, Cu<sup>2+</sup> As<sup>3+</sup>, Al<sup>3+</sup>, Fe<sup>3+</sup>, Mn<sup>2+</sup>, Zn<sup>2+</sup>, Ni<sup>2+</sup>, Ca<sup>2+</sup>, Sr<sup>2+</sup>, Ba<sup>2+</sup>, Mg<sup>2+</sup>, NH<sub>4</sub><sup>+</sup>                      Anions: CO<sub>3</sub><sup>2-</sup>, S<sup>2-</sup>, SO<sub>3</sub><sup>2-</sup>, NO<sub>2</sub><sup>-</sup>, SO<sub>4</sub><sup>2-</sup>, Cl<sup>-</sup>, Br<sup>-</sup>, I<sup>-</sup>, PO<sub>4</sub><sup>3-</sup>, C<sub>2</sub>O<sub>4</sub><sup>2-</sup>, CH<sub>3</sub>COO<sup>-</sup>, NO<sub>3</sub><sup>-</sup> (Note: Insoluble salts excluded)</p>

AUGUST	27	18	07	<p><b>Unit V: Coordination Compounds</b> 18 Periods Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. Bonding, Werner's theory, VBT, and CFT; structure and stereoisomerism, the importance of coordination compounds (in qualitative analysis, extraction of metals and biological system).</p>	<p>6. Preparation of Inorganic Compounds Preparation of double salt of Ferrous Ammonium Sulphate or Potash Alum. Preparation of Potassium Ferric Oxalate.</p> <p>7. Tests for the functional groups present in organic compounds: Unsaturation, alcoholic, phenolic, aldehydic, ketonic, groups.</p>	<p><b>PWT 2 / UT 2 (8-10 AUGUST 2024)</b></p>
		15	06	<p><b>Unit VI: Haloalkanes and Haloarenes.</b> 15 Periods  <b>Haloalkanes:</b> Nomenclature, nature of C–X bond, physical and chemical properties, optical rotation mechanism of substitution reactions.  <b>Haloarenes:</b> Nature of C–X bond, substitution reactions (Directive influence of halogen in monosubstituted compounds only). Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.</p>		

SEPTEMBER	24	14	06	<p><b>Unit VII: Alcohols, Phenols and Ethers</b> 14 Periods</p> <p><b>Alcohols:</b> 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.</p> <p><b>Phenols:</b> Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols.</p> <p><b>Ethers:</b> Nomenclature, methods of preparation, physical and chemical properties, uses.</p>	<p>8. Tests for the functional groups present in organic compounds: Carboxylic and amino (Primary) groups.</p>	Revision & Exams- Term I 23 Sep- 04 Oct 2024
		15	08	<p><b>Unit VIII: Aldehydes, Ketones and Carboxylic Acids</b> 15 Periods</p> <p><b>Aldehydes and Ketones:</b> Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties, mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes, Uses.</p> <p><b>Carboxylic Acids:</b> Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.</p>	<p>9. Chromatography (a) Separation of pigments from extracts of leaves and flowers by paper chromatography and determination of Rf values. (b) Separation of constituents present in an inorganic mixture containing two cations only (constituents having large difference in Rf values to be provided).</p>	
OCTOBER	21	14	06	<p><b>Unit IX: Amines</b> 14 Periods</p> <p><b>Amines:</b> Nomenclature, classification, structure, methods of preparation, physical properties and Identification.</p> <p><b>Diazonium salts:</b> Preparation, chemical reactions and importance in synthetic organic chemistry.</p>	<p>10. Any one of the following experiments:</p> <p>(a) Enthalpy of dissolution of copper sulphate or potassium nitrate.</p> <p>(b) Enthalpy of neutralization of strong acid (HCl) and strong base (NaOH).</p> <p>(c) Determination of enthalpy change during interaction (Hydrogen bond formation) between acetone and chloroform.</p>	

NOVEMBER	15	18	7	<b>Unit X: Biomolecules Carbohydrates</b> 18 Periods Classification (aldoses and ketoses), monosaccharides (glucose and fructose), D-L configuration oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); Importance of carbohydrates. Proteins -Elementary idea of - amino acids, peptide bond, polypeptides, proteins, structure of proteins - primary, secondary, tertiary structure and quaternary structures (qualitative idea only), denaturation of proteins; enzymes. Hormones - Elementary idea excluding structure. Vitamins - Classification and functions. Nucleic Acids: DNA and RNA.	11. Characteristic tests of carbohydrates, fats and proteins in pure samples and their detection in given foodstuffs.	
DECEMBER	24			<b>REVISION &amp; EXAMS</b>	<b>Investigatory Project</b>	<b>Pre-Board-I 04-14 Dec 2024</b>
JAN	31	-		<b>REVISION &amp; EXAMS</b>	-----	<b>Pre-Board II 20-30 Jan 2025</b>
FEB B	28	-		<b>REVISION &amp; Annual Examinations</b>	-----	
FEB & MARCH	31			<b>Annual Examinations</b>		

*Art integrated learning must be invariably adopted for clarifying scientific concepts.*

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**NAVODAYA VIDYALAYA SAMITI**

**CLASS: XII (SCI)**

**SUBJECT: BIOLOGY**

**SUBJECT CODE: 044**

The present curriculum provides the students with updated concepts along with an extended exposure to contemporary areas of the subject. The curriculum also aims at emphasizing the underlying principles that are common to animals, plants and microorganisms as well as highlighting the relationship of Biology with other areas of knowledge. The format allows a simple, clear, sequential flow of concepts. It relates the study of biology to real life through the developments in use of technology. It links the discoveries and innovations in biology to everyday life such as environment, industry, health and agriculture. The updated curriculum also focuses on understanding and application of scientific principles, while ensuring that ample opportunities and scope for learning and appreciating basic concepts continue to be available within its framework. The prescribed syllabus is expected to:

- Promote understanding of basic principles of Biology
- Encourage learning of emerging knowledge and its relevance to individual and society
- Promote rational/scientific attitude towards issues related to population, environment and development.
- Enhance awareness about environmental issues, problems and their appropriate solutions.
- Create awareness amongst the learners about diversity in the living organisms and developing respect for other living beings.
- Appreciate that the most complex biological phenomena are built on essentially simple processes.

It is expected that the students would get an exposure to various branches of Biology in the curriculum in a more contextual and systematic manner as they study its various units.

**COURSESTRUCTURECLASS XII(2024-25)(THEORY)**

**Time:3 Hours**

**Max.Marks:70**

<b>Unit No</b>	<b>Title</b>	<b>No.ofPeriods</b>	<b>Marks</b>
VI	Reproduction	30	<b>16</b>
VII	GeneticsandEvolution	40	<b>20</b>
VIII	BiologyandHumanWelfare	30	<b>12</b>
IX	BiotechnologyanditsApplications	30	<b>12</b>
X	EcologyandEnvironment	30	<b>10</b>



			Total	160	70
MONTH	NO OF DAYS	NO OF PERIODS	Main Topic and Sub-Topics to be Covered	Activities/Projects/ Practical Experiments to be Held	
April-2024	21	21+9 =30	<p><b>Unit VI-Reproduction:</b>  <b>Sexual Reproduction in Flowering Plants</b> Sexual reproduction in flowering plant Flower structure; Development of male and female gametophytes; Pollination - types, agencies and examples; out breeding devices; pollen-pistil interaction; Double fertilization; post fertilization events- Development of endosperm and embryo, development of seed and formation of fruit; special modes- apomixis, parthenocarpy, polyembryony; Significance of seed dispersal and fruit formation.</p> <p><b>Human Reproduction:</b> Male and female reproductive systems; microscopic anatomy of testis and ovary; gametogenesis spermatogenesis and oogenesis; menstrual cycle; fertilisation, embryo development upto blastocyst formation, implantation; pregnancy and placenta formation (elementary idea); parturition (elementary idea); lactation (elementary idea).</p> <p><b>Reproductive health:</b> Need for reproductive health and prevention of Sexually Transmitted Diseases (STDs); birth control - need and methods, contraception and medical termination of pregnancy (MTP);</p>	<p><b>Experiments:</b></p> <p>1. Study of pollen germination on a cavity slide</p> <p><b>Spotting:</b></p> <p>1. Study of flowers adapted to pollination</p> <p>2. Exercise on Controlled pollination</p> <p>3. Pollen germination on stigma through a permanent slide or scanning electron micrograph. O labs video (<a href="https://youtu.be/4wx3d02eib4">https://youtu.be/4wx3d02eib4</a>)</p> <p>4. Study and identify stages of gamete development i.e. T.S. of testis, T.S. of ovary through permanent slides. O labs simulation <a href="https://bit.ly/3YUWOaU">https://bit.ly/3YUWOaU</a></p> <p>5. Study of meiosis through permanent slides</p> <p>6. Study of blastula through permanent slide O lab simulation <a href="https://bit.ly/3S04eaB">https://bit.ly/3S04eaB</a> May</p>	

			amniocentesis;infertility and assisted reproductivetechnologies - IVF, ZIFT, GIFT(elementary idea for generalawareness).	
			<b>UT 1</b>	
<b>JULY-2024</b>	25	25+ 12= 37	<p><b>Unit VII-Genetics and EvolutionHeredity and variation:</b>Mendelian inheritance; deviationsfrom Mendelism – incompletdominance,co-dominance.</p> <p>multipleallelesandinheritanceofbloo dgroups,pleiotropy;elementaryideo fpolygenicinheritance; chromosome theory ofinheritance;chromosomesandgene s;Sexdetermination- inhumans,birdsandhoneybee;linkag eandcrossingover;sexlinkedinheritance- haemophilia,colourblindness;Mende liandisorders in humans - thalassemia;chromosomal disorders in humans;Down'ssyndrome,Turner'sa nd Haemophilia,colourblindness,Mende lian disorders in humans- thalassemia,chromosomal disorders in humans, Down's syndrome, Turner's syndrome and Klinefelter'ssyndromes.</p>	<p><b>Experiments:</b> 2.Prepareatemporarymountofonionroot tip to study mitosis. Olabs video <a href="https://youtu.be/N-">https://youtu.be/N-</a></p> <p><b>Spotting:</b> 7.StudyofMendelianinheritance using seeds of different colours of any plant Olabs simulation <a href="https://bit.ly/3S4laMX">https://bit.ly/3S4laMX</a></p> <p>8. Study of prepared pedigree charts.Olabs <a href="https://bit.ly/3k5b">ZZsimulationhttps://bit.ly/3k5b</a> <b>KV1</b></p>

			<p><b>Molecular basis of Inheritance</b>                  Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central Dogma; transcription, genetic code, translation; gene expression and regulation - lac operon; Genome, Human and rice genome projects; DNA fingerprinting.</p>	
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">August - 2024</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">25</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">25+12=37</p>	<p><b>UT-2</b></p>	
			<p><b>Evolution</b>                  origin of life; biological evolution and evidences of biological evolution (palaeontology, comparative anatomy, embryology and molecular evidence); 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  <b>Unit VIII - Biology and Human welfare Health and disease</b>  <b>Pathogens</b> parasites causing human diseases (malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control; Basic concepts of immunology - vaccines; cancer, HIV and AIDS; Adolescence - drug and alcohol abuse.   <b>Microbes in human welfare</b>                  Microbes in food processing, industrial production, sewage treatment, energy generation and microbes as bio-control agents and bio-fertilizers. Antibiotics;</p>	<p><b>Spotting:</b>                  Common disease-causing organisms like <i>Ascaris</i>, <i>Entamoeba</i>, <i>Plasmodium</i>, any fungus causing <b>ringworm</b> through permanent slides, models or virtual images or specimens. Comment on symptoms of diseases that they cause.  <b>Experiments:</b>                  3. Isolate DNA from available plant materials such as spinach, green pea seeds, papaya, etc.</p>

			production and judicious use.	
September-2024	18	18+7=25	<p><b>Unit IX- Biotechnology and its applications</b>  <b>Biotechnology - Principles and Processes.</b>                      Genetic Engineering (Recombinant DNA Technology).</p> <p><b>Biotechnology and its Applications</b></p> <p>Application of biotechnology in health and agriculture: Human insulin and vaccine production, stem cell technology, gene therapy; genetically modified organisms- Bt crops; transgenic animals; biosafety issues, biopiracy and patents.</p>	
<b>MID TERM EXAMINATIONS</b>				
October-2024	22	22+9=31	<p><b>Unit X- Ecology and Environment</b>                      Organisms and environment Population interactions- mutualism, competition, predation, parasitism; population attributes- growth, birth rate and death rate, age distribution. (Topics excluded: Organism and its Environment, Major Abiotic Factors, Response to Abiotic Factors, Adaptations).</p> <p><b>Ecosystem:</b>                      Ecosystems: Patterns, components; productivity and decomposition; energy flow; pyramids of number, biomass, energy (Topics excluded: Ecological Succession and Nutrient Cycles)</p>	<p><b>Experiments:</b></p> <p>4. Study of plant population density by quadrat method. O lab video <a href="https://youtu.be/FlwR-EGE9zA">https://youtu.be/FlwR-EGE9zA</a></p> <p>Study of plant population frequency by quadrat method. O lab video <a href="https://youtu.be/uBYqBNy0jMQ">https://youtu.be/uBYqBNy0jMQ</a></p> <p><b>Spotting:</b></p> <p>11. Models specimen showing symbolic association in root nodules of leguminous plants, Cuscuta on host, lichens.</p>
			<b>Investigatory Project</b>	

November-2024		20	<p><b>Biodiversity and its Conservation</b>                      Biodiversity-Concept, patterns, importance; loss of biodiversity; biodiversity conservation; hotspots, endangered organisms, extinction, Red Data Book, Sacred Groves, biosphere reserves, national parks, wildlife, sanctuaries and Ramsar sites.</p> <p><b>Revision of Difficult Topics Preparation for Pre-Board Examination-I</b></p>	<p><b>Submission</b>                      1. Record                      2. Investigatory Project</p>
			<b>REVISION AND PREPARATION OF CBSE EXAM</b>	

## XI BIOLOGY PRACTICALS

### A. List of Experiments

1. Prepare a temporary mount to observe pollen germination.
2. Study the plant population density by quadrat method.
3. Study the plant population frequency by quadrat method.
4. Prepare a temporary mount of onion root tip to study mitosis.
5. Isolate DNA from available plant materials such as spinach, green pea seeds, papaya, etc.

### B. Study and observe the following (Spotting)

1. Flowers adapted to pollination by different agencies (wind, insects, birds).
2. Pollen germination on stigma through a permanent slide or scanning electron micrograph.
3. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice).
4. Meiosis in onion bud cell or grasshopper testis through permanent slides.
5. T.S. of blastula through permanent slides (Mammalian).
6. Mendelian inheritance using seeds of different colour/sizes of any plant.
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.
8. Controlled pollination-emasculation, tagging and bagging.
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.

**PRACTICALS**

**Time allowed: 3Hours**

**Max.Marks:30**

<b>EvaluationScheme</b>	<b>Marks</b>
<b>OneMajorExperiment 5</b>	<b>05</b>
<b>OneMinorExperiment2 &amp;3</b>	<b>04</b>
<b>SlidePreparation1&amp;4</b>	<b>05</b>
<b>Spotting</b>	<b>07</b>
<b>PracticalRecord+VivaVoce</b>	<b>04</b>
<b>Investigatory Project and its Project Record + Viva Voce Credit (to the students' work over the academic session may be given)</b>	<b>05</b>
<b>Total</b>	<b>30</b>

**Question Paper Design (Theory)**

**2023-24 Class XII Biology (044)**

**Competencies**

<b>Demonstrate Knowledge and Understanding</b>	<b>50%</b>
<b>Application of Knowledge/Concepts</b>	<b>30%</b>
<b>Analyse, Evaluate and Create</b>	<b>20%</b>

**Note:**

- s) Typology of questions: VSA including MCQs, Assertion-Reasoning type questions; SA; LA-I; LA-II; Source-based/Case-based/Passage-based/Integrated assessment questions.
- t) An internal choice of approximately 33% would be provided.

**Suggestive verbs for various competencies**

- Demonstrate, Knowledge and Understanding  
-State, name, list, identify, define, suggest, describe, outline, summarize, etc.

- Application of Knowledge/Concepts  
- Calculate, illustrate, show, adapt, explain, distinguish, etc.
- Analyze, Evaluate and Create  
- Interpret, analyse, compare, contrast, examine, evaluate, discuss, construct, etc.

### Online Resources for Theory and Practicals

- h) Virtual Labs <https://diksha.gov.in/virtuallabs.html>
- i) Olabs - <https://www.olabs.edu.in/>
- j) Virtual Fly Lab <https://www.sciencecourseware.org/FlyLabJS/>
- k) Biology Interactive Resources <https://www.biointeractive.org/classroom-resources>
- l) Online Macromolecular Museum <https://bit.ly/3YAQ1U0>
- m) Sumanas Multimedia Animations <https://bit.ly/3I1XRPj>
- n) Genetic Science Learning Center <https://learn.genetics.utah.edu/content/labs/>
- o) DNA Interactive <http://www.dnai.org/>
- p) DNA from the Beginning <http://www.dnafb.org/>
- q) Inside Cancer <http://www.insidecancer.org/>
- r) Your Genes Your Health <http://www.ygyh.org>
- s) Biology Animations <https://dnalc.cshl.edu/resources/animations/>
- t) Biology-Live <http://www.bio-alive.com/animations/biology.htm>
- u) Virtual Cell Animations <https://vcell.science/>
- v) Learn Genetics <https://learn.genetics.utah.edu/>
- w) Untamed Science <https://untamedscience.com/science-videos-list/>
- x) Pearson <https://untamedscience.com/pearson/>
- y) Biology <https://www.pearson.com/channels/biology>

**NAVODAYA VIDYALAYA SAMITI,**

**CLASS: XII**

**SUBJECT: HISTORY**

**SUBJECT CODE: 027**

Unit No	Name of The Chapter/ unit	Marks	Periods
01	1Bricks,BeadsandBones	25	15
	2Kings,FarmersandTowns		17
	3Kinship,CasteandClass		17
	4Thinkers,BeliefsandBuildings		12
02	5ThroughtheEyesofTravelers	25	12
	6Bhakti–SufiTraditions		15
	7AnImperialCapital:Vijayanagar		17
	8Peasants,ZamindarsandtheState		17
03	9ColonialismandTheCountryside	25	14
	10RebelsandtheRaj		14
04	11 Mahatma Gandhi and the Nationalist Movement		15
	12FramingtheConstitution		15
	MAPWORK	5	15
	TOTAL	80	195
	INTERNALASSESSMENT/PROJECTWORK	20	25
	GRANDTOTAL	100	220

MONTH	NO OF DAYS	NO OF PERIODS	Main Topic and Sub-Topics to be Covered	Activities/Projects/ Practical Experiments to be Held Specific Assessment Tool(s) (Suggested)
APRIL 2024	22	38	<b>Bricks,BeadsandBones–</b> The Harappan civilization 1. Beginnings. 2. SubsistenceStrategies 3. Mohenjo-DaroplannedUrbanCentre 4.TrackingSocialDifferences 5. FindingoutaboutCraftProduction 6.Strategiesfor Procuring Materials 7.Seals, Scripts, Weight. 8. AncientAuthority 9.TheEndof the Civilization 10. Discovering the Harappan Civilization 11.Problems ofpiecingtogether the Past	- Map practice of harappansites Harappan,Banawali,Kalibang Balakot,Rakhigarhi,Dholavira geshwar,Lothal,Mohenjodaro anh-udaro,Kotdiji - Quiz based on the knowledge oftopics. Historicaltrip,project guidelin allotmentof final topic for proje work.



			<p><b>Kings, Farmers and Towns–</b> Early states and Economics (C. 600 BCE - 600 CE)</p> <ol style="list-style-type: none"> <li>1. Prince and Piyadas'</li> <li>2. The Earliest States</li> <li>3. An Early Empire</li> <li>4. New Notions of Kingship</li> <li>5. A changing Countryside</li> <li>6. Towns and Trade</li> <li>7. Back to basics: How are Inscriptions deciphered?</li> </ol>	<ul style="list-style-type: none"> <li>- Map practice of early states and their capitals, quiz and kingdom and to (mahajanpadas Vajji, Magadha, Kosala, K Panchala, Gandhara, Av Rajgir, Ujjain, Taxila, Varan)</li> <li>- Visit to near by history museum</li> </ul> <p>Map practice of mahajanp quiz on subtopics</p>
<p><b>PWT/UT-1</b> <b>26-29 April 2024</b></p>				
<p><b>JULY. 2024</b></p>	<p><b>26</b></p>	<p><b>44</b></p>	<p><b>Kinship, Caste and Class-</b> Early Societies (C. 600 BCE - 600 CE)</p> <ol style="list-style-type: none"> <li>1. The critical edition of the Mahabharata</li> <li>2. Kinship and marriage: Many rules and varied practices</li> <li>3. Social differences: Within and beyond the framework of Caste</li> <li>4. Beyond birth Resources and Status</li> <li>5. Explaining social differences: A Social Contract</li> <li>6. Handing Texts, Historians and the Mahabharata</li> <li>7. A Dynamic Text</li> </ol>	<p>Performing of play based on the story Mahabharata</p>
			<p><b>Thinkers, Beliefs and Buildings</b> Cultural Developments (C. 600 BCE - 600 CE)</p> <ol style="list-style-type: none"> <li>1. A glimpse of Sanchi.</li> <li>2. The background: Sacrifices and Debates</li> <li>3. Beyond worldly pleasure, The message of Mahavira</li> <li>4. The Buddha and the quest for Enlightenment</li> <li>5. The teachings of the Buddha</li> <li>6. Followers of the Buddha</li> <li>7. Stupas</li> <li>8. "Discovering" Stupas, The faith of Amaravati and Sanchi</li> <li>9. Sculpture</li> <li>10. New Religious Traditions</li> <li>11. Can we "SEE" everything?</li> </ol>	<p>Map practice of buddhist sites Visit of near by buddhist and puranic sites</p> <p>Planning and data collection for project work.</p> <p>Quiz based on buddhism, jainism and puranic Hinduism</p>

		<p><b>Through the Eyes of Travelers</b>                  Perception of Society (C. Tenth to seventeenth century)                  1. Al-Biruni and the Kitab-ul Hind                  xiii) Ibn Battuta's Rahal                  xiv) Francois Bernier, A Doctor with a difference</p> <p>Making sense of an alien world, Al-Biruni and the Sanskrit tradition</p> <p>Ibn Battuta and the excitement of the unfamiliar Bernier and the "Degenerate East"</p> <p>Women, Slaves, Sati and Laboure's</p>	<p>Map practice of sites visited by Ibn Ba</p> <p>Quiz on subtopics                  Conduct a group discussion on the acc of medieval foreign Travellers</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">AUG 2024</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">22</p>	<p><b>Bhakti– Sufi Traditions</b> Changes in Religious beliefs and devotional tests Eight to Eighteenth century)</p> <ol style="list-style-type: none"> <li>1. A Mosaic of Religious beliefs and practices</li> <li>2. Poems of Prayers: Early traditions of Bhakti</li> <li>3. The Vira Shaiva tradition in Karnataka</li> <li>4. Religious ferment in North India</li> <li>5. New Strands in the fabric Islamic traditions</li> <li>6. The Growth of Sufism</li> <li>7. The Chishti's in the Subcontinent</li> <li>8. New devotional paths dialogue and dissent Northern India</li> <li>9. Reconstructing Histories of religious traditions</li> </ol>	<p>Map practice of temples and sufi shrines</p> <p>Quiz                  Visit of nearby temples and dargahas of sufi's</p>

		<p><b>An Imperial Capital: Vijayanagar</b> (C. Fourteenth to Sixteenth Century)</p> <ol style="list-style-type: none"> <li>1. The discovery of Hampi.</li> <li>2. Rayas, Nayakas and Sultans</li> <li>3. Vijayanagara The Capital and its Environs</li> <li>4. The Royal Centre</li> <li>5. The Sacred Centre</li> <li>6. Plotting Palaces, Temples and Bazaars</li> <li>7. Questions in search of answers</li> </ol>	<p>Map practice, quiz, Observation of various cultural activities during autumn season</p>
		<p><b>Peasants, Zamindars and the State</b> Agrarian Society and the Mughal Empire (C. Sixteenth–Seventeenth Centuries)</p> <ol style="list-style-type: none"> <li>1. Peasants and agricultural production</li> <li>2. The village community</li> <li>3. Women in agrarian society</li> <li>4. Forests and Tribes</li> <li>5. The Zamindars</li> <li>6. Land revenue system</li> <li>7. The flow of silver</li> <li>8. The Ain-I-Akbari of Abul Fazeal</li> </ol>	<p>Map practice of the areas of Mughal era Quiz A survey of nearest village and tribal area.</p>

**PWT/UT-II (08/8/2024 TO 10/8/2024)**

<b>SEP 2024</b>	<b>17</b>	<b>32</b>	<p><b>Colonialism and The Countryside</b> Exploring Official Archives</p> <ol style="list-style-type: none"> <li>1. Bengal and the Zamindars</li> <li>2. The Hoe and Plough</li> <li>3. A Revolt in Countryside: The Bombay Deccan</li> <li>4. The Deccan Riots Commission</li> </ol>	<p>Map practice, Quiz Collections and discussion of official reports</p>
			<p><b>Rebels and the Raj</b> The Revolt of 1857 and Its Representations</p> <ol style="list-style-type: none"> <li>1. Pattern of the Rebellion</li> <li>2. Awadh in Revolt</li> <li>3. What the Rebels wanted</li> <li>4. Repression</li> <li>5. Images of the Revolt</li> </ol>	<p>Practice the map major centres of British power Quiz Skit on freedom struggle</p>

**Mid Term Examination (23/09/2024 TO 04/10/2024)**

Perspective Academic Planning (PAP) Spilt-Up of Syllabus Session 2024-25

<b>Oct. 2024</b>	<b>18</b>	<b>32</b>	<p><b>Mahatma Gandhi and the Nationalist Movement</b>  <b>Civil Disobedience and Beyond</b>                      1. A Leader announces Himself                      2. The making and unmaking of Non-cooperation.                      3. The Salt Satyagraha: A Case Study                      4. Quit India                      5. The last Heroic days                      6. Knowing Gandhi</p>	<ul style="list-style-type: none"> <li>- Map practice of major sites of Gandhian Movement</li> <li>- Skit on dandi satyagraha</li> </ul>
<b>NOV. 2024</b>	<b>20</b>	<b>36</b>	<p><b>Framing the Constitution</b>  <b>The Beginning of a New Era</b>                      1. A Tumultuous time                      2. The vision of the Constitution                      3. Defining Rights                      4. The Power of States                      5. The Language of the nation.</p>	<p>Quiz on Indian constitution                      Mock parliament                      Data analysis and interpretation for project work                      MAPWORK</p>
<b>DECEMBER</b>	<p>INTERNAL ASSESSMENT/ PROJECT WORK                      REVISION</p> <p><b>1<sup>st</sup> PRE – BOARD</b>  <b>04.12.2024 to 14.12.2024</b></p>			
<p><b>DECEMBER 2024/ JANUARY 2025 REVISION</b>  <b>2<sup>nd</sup> PRE – BOARD (20.01.2025 to 30.01.2025)</b>  <b>Annual Exam ( 15 Feb. 2025 onwards As per CBSE Schedule)</b></p>				

NAVODAYA VIDYALAYA SAMITI

CLASS: XII

SUBJECT: GEOGRAPHY

SUB.CODE: 029

Sl. No.	NAME OF THE TEXTBOOKS/ UNITS/CHAPTERS	ALLOTTED MARKS	NUMBER OF PERIODS
1	Fundamentals of Human Geography	30	85
2	India- People and Economy	30	85
3	Practical Work in Geography – Part II	25+3+2= 30	40
4	Map Work from Fundamentals of Human Geography	5	5
5	Map work from India - People and Economy	5	5
	Total	100 Marks	220

Month	No. of days	No. of Periods	Main topic and subtopics to be covered	Activities/ projects practical
APRIL 2024	22 Days	38 Periods	<p><b><u>Fundamentals of Human Geography</u></b>  <b>Unit I</b></p> <ul style="list-style-type: none"> <li>Human Geography Nature and Scope</li> <li>The World Population: Distribution, Density and Growth</li> </ul> <p><b><u>India: People and Economy</u></b>  <b>Unit I</b></p> <ul style="list-style-type: none"> <li>Population: Distribution, Density, Growth, and Composition</li> </ul> <p><b><u>Fundamentals of Human Geography</u></b>  <b>Unit II &amp; III</b></p> <ul style="list-style-type: none"> <li>Human Development</li> </ul>	<p><u>Activity:</u>                      Debate &amp; Discussion or Naturalization of Humans and Humanization of Nature.</p>
			<p><b>PWT/UT-1</b>  <b>(26/04/2024 TO 29/04/2024)</b></p>	

JULY 2024	26 Days	44 Periods	<p><b><u>Fundamentals of Human Geography</u></b>  <b>Unit II &amp; III</b></p> <ul style="list-style-type: none"> <li>• Primary Activities</li> </ul> <p><b><u>India: People and Economy</u></b>  <b>Unit I</b></p> <ul style="list-style-type: none"> <li>• Human Settlement</li> </ul> <p><b><u>Fundamentals of Human Geography</u></b>  <b>Unit III</b></p> <ul style="list-style-type: none"> <li>• Secondary activities</li> </ul> <p><b><u>India: People and Economy</u></b>  <b>Unit III</b></p> <ul style="list-style-type: none"> <li>• Land Resources and Agriculture</li> </ul>	<p><u>Practical Work in Geography II</u>                  Data – Its Source and Compilation</p>
AUGUST 2024 2	22 Days	38 Periods	<p><b><u>India: People and Economy</u></b>  <b>Unit III</b></p> <ul style="list-style-type: none"> <li>• Water Resources</li> <li>• Minerals and Energy Resources</li> </ul> <p><b><u>Fundamentals of Human Geography</u></b>  <b>Unit III</b></p> <ul style="list-style-type: none"> <li>• Tertiary and Quaternary Activities</li> </ul>	<p><u>Practical Work in Geography - II</u>                  Data Processing</p>
<b>PWT/UT-II (08/8/2024 TO 10/8/2024)</b>				
SEPTEMBER 2024	17 Days	32 Periods	<p><b><u>India: People and Economy</u></b>  <b>Unit III</b></p> <ul style="list-style-type: none"> <li>• Planning and Sustainable Development in Indian Context</li> </ul> <p><b>Unit IV</b></p> <ul style="list-style-type: none"> <li>• Transport and communication</li> </ul> <p><b><u>Fundamentals of Human Geography</u></b>  <b>Unit III</b></p> <ul style="list-style-type: none"> <li>• Transport and Communication &amp; Trade</li> </ul>	<p><u>Practical Work in Geography – II</u>                  Graphical Representation Of Data</p>
<b>Mid Term Examination (23/09/2024 TO 04/10/2024)</b>				

OCTOBER 2024	18 Days	32 Periods	<p><b><u>Fundamentals of Human Geography</u></b></p> <p><b>Unit III</b></p> <ul style="list-style-type: none"> <li>• International Trade</li> </ul> <p><b><u>India: People and Economy</u></b></p> <p><b>Unit IV</b></p> <ul style="list-style-type: none"> <li>• International Trade</li> </ul> <p><b>Unit V</b></p> <ul style="list-style-type: none"> <li>• Geographical Perspective On Selected Issues and Problems</li> </ul>	<p><b><u>Practical Work in Geography – II</u></b></p> <p>Spatial Information Technology</p>
NOVEMBER 2024	20	36	<p><b><u>India: People and Economy</u></b></p> <p><b>Unit V</b></p> <ul style="list-style-type: none"> <li>• Geographical Perspective On Selected Issues and Problems</li> </ul> <p>1. Map Work on identification of features based on 1-5 units on the outline Physical/Political map of World.</p> <p>2. Map work on locating and labeling of features based on above units on outline map of India.</p>	
DECEMBER 2024	INTERNAL ASSESSMENT/ PROJECT WORK REVISION			
	<b>1<sup>st</sup> PRE – BOARD</b>			
	<b>04.12.2024 to 14.12.2024</b>			
<p><b>DECEMBER 2024/ JANUARY 2025 REVISION</b></p> <p><b>2<sup>nd</sup> PRE – BOARD (20.01.2025 to 30.01.2025)</b></p>				

**SUGGESTED CLASS ROOM ACTIVITIES: -**

- GROUP DISCUSSION OR DEBATE
- MAP PRACTICE
- GRAPH AND DATA INTERPRETATION
- FOCUS ON LOCAL AREA RESOURCES & ENVIRONMENT
- OTHER RELEVANT ACTIVITIES

Note: Any changes in the syllabus, if announced by CBSE during the academic year 2024-25, have to be incorporated into the split-up syllabus by the concerned teachers and Principal accordingly. In this regard, Principals and teachers will always remain in touch with CBSE and its website. Art integrated activities must be integrated with the teaching-learning process.

***\*Number of periods mentioned here against each month is insufficient to complete the whole syllabus within the stipulated time. Extra classes are necessary.***

**NAVODAYAVIDYALAYASAMITI**  
CLASS12

CLASS:12

SUBJECT:ECONOMICS

SUBJECTCODE:030

<b>Units</b>		<b>Marks</b>	<b>Periods (As per CBSE)</b>
<b>PartA</b>	<b>IntroductoryMacroeconomics</b>		
	NationalIncomeandRelatedAggregates	10	30
	MoneyandBanking	06	15
	DeterminationofIncomeandEmployment	12	30
	GovernmentBudgetandtheEconomy	06	17
	BalanceofPayments	06	18
		<b>40</b>	
<b>PartB</b>	<b>IndianEconomicDevelopment</b>		
	Development Experience (1947-90) and Economic Reforms since 1991	12	28
	CurrentChallengesfacingIndianEconomy	20	50
	Development Experience of India – A Comparison with Neighbors	08	12
		<b>40</b>	
	<b>TheoryPaper(Total)</b>	80	<b>200</b>
<b>PartC</b>	<b>Project Work</b>	20	20
	<b>GrandTotal</b>	<b>100</b>	220



Month	No.ofdays	No.ofPeriods	MainTopicandSubtopicstobecoved	Activities/Project s/ Practical/ Experiments to be held/Specific AssessmentTool( s) suggested.
APRIL2024	22	36	<p><b>Unit1:NationalIncomeandRelatedAggregates:</b>                      What is Macroeconomics? Basic concepts in macroeconomics: Consumption goods, Capital goods,final goods, intermediate goods, stocks and flows, gross investmentand depreciation.</p> <p>Circular flow of income (two sector model), Methods of calculating National Income- Value Added or Product method, Expenditure method, Income method.</p> <p>Aggregates related to National Income: Gross National Product (GNP), Net National Product (NNP), Gross Domestic Product (GDP) and Net Domestic Product (NDP)-at market price, atfactor cost, Real and Nominal GDP.                      GDPandWelfare.</p> <p><b>Unit2:MoneyandBanking</b>                      Money- meaning and functions, supply of money- Currencyheldbythe public and netdemand deposits held by commercial banks.</p> <p><b>UT-IEEXAMINATION26TO29APRIL,2024</b>  <i>Syllabus:-Unit1</i></p>	<p><b>Quiz,mindmap, PPT presentation.</b></p> <p><b>Selectionoftopic for project work</b></p>
JULY2024	26	39	<p><b>Unit2:MoneyandBanking</b>                      Money creation by thecommercial banking system. Central bankand itsfunctions (example of theReserveBankofIndia):Bankofissue,Govt.Bank,Ban ker’s Bank, Control ofCredit through Bank Rate,CRR, SLR, RepoRateandReverseRepoRate,OpenMarketOperatio ns, Margin requirement.</p> <p><b>Unit3:DeterminationofIncomeandEmployment</b>                      Aggregatedemandanditscomponents                      Propensity to consume andPropensity to Save (averageand marginal).                      Short-run equilibriumoutput, investmentmultiplier and its mechanism.                      Meaning of full employment and involuntary unemployment.                      Problemsofexcessdemandanddeficientdemand,measur</p>	<p><b>Competitive basedquestion</b></p> <p><b>Case study on impact andeffect of Repo rate change</b></p> <p><b>Collection of material relateto project andreview ofliterature</b></p>

			es to correct them-changes in government spending,taxesandmoneysupply.	
AUGUST2024	22	35	<p><b>Unit 4: Government Budget and the Economy</b> Government budget- meaning, objectives andcomponents. Classification of receipts-revenue receipts and capital receipts. Classification of expenditure-revenue expenditure and capital expenditure.</p> <p>Balanced,SurplusandDeficitBudget-measuresof government deficit.</p> <p><b>Unit5:BalanceOfPayments</b> Balance of paymentsaccount-meaning andcomponents. Balance OfPayments-Surplus and Deficit Foreignexchangerate- meaningoffixedand flexiblerates and managed floating.</p> <p>Determination of exchangerate in a free market, Merits, anddemeritsofflexibleand fixedexchangerate.Managed Floating exchangerate system.</p> <p><b>UT-IIEXAMINATION08TO10AUGUST,2024</b></p>	<p><b>Debate Value based questions. Case study and Assertionquestion relates todeficit budget. Collection of dataforproject work</b></p>
			<b>SyllabusforUT-IIExam:-Unit2and3</b>	
SEPTEMBER2024	17	28	<p><b>Unit6:Development Experience(1947-90)andEconomicReformssince 1991:</b> A briefintroduction ofthestate ofIndian economyonthe eve of independence. Indian economic system andcommon goals of Five-Year Plans. Main features, problems and policies of agriculture (institutional aspects and new agricultural strategy), industry(IPR 1956,SSI-roleandimportance)and foreign trade.</p> <p><b>RevisionforTerm1Examination</b> <b>TERM1EXAM23Septemberto04October,2024</b> <i>Syllabus for TERM - I Exam: - Units 1 to 6 the syllabus completed till the date</i></p>	<p>Analysisofproject data Debate, quiz Application oriented questions</p>
OCT OBE			<p><b>Unit7:CurrentChallengesfacingIndianEconomy</b> <b>Human Capital Formation:</b> How people become</p>	<p><b>Findings, policy</b></p>

	18	30	resource, Role of human capital in economic development, Growth of Education Sector in India. <b>Rural development:</b> Key issues- credit and marketing- role of cooperatives, agricultural diversification, alternative farming- Organic farming <b>Employment:</b> Growth and changes in work force participation rate in formal and informal sectors, problems and policies.	<b>recommendation and conclusion of project work</b> <b>Case study competitive based question MCQ</b>
NOVEMBER 2024	20	32	<b>Sustainable Economic Development:</b> Meaning, Effects of Economic Development on Resources and Environment, including global warming. <b>Unit 8: Development Experience of India:</b> A comparison with neighbors India and Pakistan India and China Issues: economic growth, population, sectoral development and other Human Development Indicators.	<b>Case study competitive based question MCQ</b> <b>Art integrated techniques</b>
DECEMBER 2024	12	20	<b>PREPARATION OF PROJECT WORK &amp; Revision for Pre-Board – I Exam</b> <b>PRE-BOARD – I EXAM 04 TO 14 DEC. 2024</b> <b>Revision for Pre-Board – II Exam</b>	Practice of Sample Papers, Practice Tests
JANUARY 2025	14		<b>Revision for Pre-Board – II Exam</b> <b>PRE-BOARD – II EXAM 20 TO 30 JAN. 2025</b>	Practice of Sample Papers, Practice Tests
FEBRUARY 2025	22		<b>PRACTICAL EXAMINATION OF CBSE</b> <b>And</b> <b>Revision for Annual Examination</b> <b>ANNUAL EXAMINATION 15 FEB. 2025 ONWARDS</b>	Practice of Sample Papers, Practice Tests

SUGGESTED QUESTION PAPER PATTERN BY CBSE

Economics (Code No. 030)

Class XII (2024-25) Theory: 80 Marks 3 hrs.

Project: 20 Marks

SN	Typology of Questions	Marks	Percentage
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1	<b>Remembering and Understanding:</b> Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers. Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions, and stating main ideas	44	55%
2	<b>Applying:</b> Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	18	22.5%
3	<b>Analyzing, Evaluating and Creating:</b> Examine and break information into parts by identifying motives or causes. Make inferences and find evidence to support generalizations. Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria. Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions.	18	22.5%
	Total	80	100%

**NAVODAYA VIDYALAYA SAMITI**

**CLASS XII (2024-25)**

**SUBJECT: ACCOUNTANCY (055)**

**Theory: 80 Marks**

**Time: 3 Hrs.**

**Project: 20 Marks**

<b>Part A: Accounting for Partnership Firms and Companies (60Marks)</b>			
<b>Units</b>	<b>Name of the Chapter/ Unit</b>	<b>Marks</b>	<b>Periods</b>
Unit-1	Accounting for Partnership Firms	36	105
Unit 2.	Accounting for Companies	24	45
	<b>Total</b>	<b>60</b>	<b>150</b>
<b>Part B: Financial Statement Analysis (20Marks)</b>			
Unit 3.	Analysis of Financial Statements	12	30
Unit 4.	Cash Flow Statement	8	20
	<b>Total</b>	<b>20</b>	<b>50</b>
<b>Part-C: Project Work (20Marks)</b>			
	Project File	12	
	Viva Voce	08	
	<b>Total</b>	<b>20</b>	<b>20</b>
	<b>Grand Total (A +B+C)</b>	<b>100</b>	<b>220</b>

**PART A: ACCOUNTING FOR PARTNERSHIP FIRMS AND COMPANIES**

Month	No. of Days	No. of Periods	Main Topic and Subtopics to be covered	Activities/Projects/ Practical/ Experiments to be held/Specific Assessment Tools suggested
APRIL 2024	22	38	<p><b>Unit 1: Accounting for Partnership Firms:</b></p> <ul style="list-style-type: none"> <li>Partnership: features, Partnership Deed, Provisions of the Indian Partnership Act 1932 in the absence of partnership deed. Fixed v/s fluctuating capital accounts. Preparation of Profit and Loss Appropriation account- division of profit among partners, guarantee of profits, - Past adjustments (relating to interest on capital, interest on drawing, salary and profit-sharing ratio).</li> <li>Goodwill: Meaning, nature, factors affecting, need for valuation and methods for calculation - average profit, super profit and capitalization, adjusted through partner's capital/current account.</li> </ul> <p><b>Unit-2 Accounting for Partnership Firms Reconstitution:-</b></p> <p><b>-Change in profit sharing ratio among the existing partners</b> - sacrificing ratio, gaining ratio, accounting for revaluation of assets and reassessment of liabilities and treatment of reserves, accumulated profits and losses. Preparation of revaluation account and Balance Sheet. <b>Admission of a partner</b> - Effect of admission of a partner on change in the profit-sharing ratio, treatment of goodwill (as per AS 26),</p> <p><b>UT – I EXAMINATION 26 TO 29 APRIL, 2024</b></p> <p><i>Syllabus for UT – I: Partnership: Fundamentals, Change in Profit Sharing Ratio</i></p>	<p>Role Play of students regarding formation of partnership and their agreement based on previous knowledge</p>
JULY 2024	26	42	<p><b>Admission of a partner</b> - Treatment for revaluation of assets and reassessment of liabilities, treatment of reserves, accumulated profits and losses, adjustment of capital accounts and preparation of capital, current account and Balance Sheet</p>	<p>Different assignments can be given to the students to understand the topic through role play method, Quiz, Class Tests</p>

			<p><b>Retirement and Death of a Partner:</b> effect of retirement/death of a partner on change in profit sharing ratio, treatment of goodwill (as per AS 26), treatment for revaluation of assets and reassessment of liabilities, adjustment of accumulated profits, losses and reserves, adjustment of capital accounts and preparation of capital, current account and balance sheet. Preparation of loan account of the retiring partner.</p> <ul style="list-style-type: none"> <li>• Calculation of deceased partner’s share of profit till the date of death. Preparation of deceased partner’s capital account and his executor’s account.</li> </ul>	
AUGUST 2024	22	40	<p><b>Dissolution of a Partnership firm:</b> meaning of dissolution of partnership and partnership firm, types of dissolution of a firm. Settlement of accounts - preparation of realization account, and other related accounts: capital accounts of partners and cash/bank a/c (excluding piecemeal distribution, sale to a company and insolvency of partner(s)).</p> <p><b>Note:</b> (i) If the realized value of tangible assets is not given it should be considered as realized at book value itself.  (ii) If the realized value of intangible assets is not given it should be considered as nil (zero value).  (iii) In case, the realization expenses are borne by a partner, clear indication should be given regarding the payment thereof.</p> <p><b>Unit-3 Accounting for Companies</b>  <b>Accounting for Share Capital</b></p> <ul style="list-style-type: none"> <li>• Features and types of companies</li> <li>• Share and share capital: nature and types.</li> <li>• Accounting for share capital: issue and allotment of equity and preferences shares. Public subscription of shares - over subscription and under subscription of shares; issued at par and at premium, calls in advance and arrears (excluding interest), issue of shares for consideration other than cash.</li> </ul> <p><b>UT – II EXAMINATION 08 TO 10 AUG, 2024</b></p> <p><i>Syllabus for UT – II: Admission of a Partner</i></p>	<p>Different assignments can be given to the students to understand the topic through role play method, Quiz, Class Tests</p>

			<b>and Retirement and Death of Partner</b>	
SEPTEMBER 2024	17	30	<p><b>Accounting for Share Capital (cont.)</b></p> <ul style="list-style-type: none"> <li>• Concept of Private Placement and Employee Stock Option Plan (ESOP), Sweat Equity.</li> <li>• Accounting treatment of forfeiture and reissue of shares.</li> <li>• Disclosure of share capital in the Balance Sheet of a company.</li> </ul> <p><b>Accounting for Debentures</b></p> <ul style="list-style-type: none"> <li>• <b>Accounting for Debentures</b></li> <li>• Debentures: Meaning, types, Issue of debentures at par, at a premium and at a discount. Issue of debentures for consideration other than cash; Issue of debentures with terms of redemption, Debentures issued as collateral security-concept, interest on debentures (concept of TDS is excluded), Writing off discount / loss on issue of debentures.</li> </ul> <p><b>Note:</b> Discount or loss on issue of debentures to be written off in the year debentures are allotted from Security Premium Reserve (if it exists) and then from Statement of Profit and Loss as Finance Cost(AS-16)</p> <p><b>Revision for Term 1 Examination</b></p> <p><b>TERM 1 EXAM 23 September to 04 October, 2024</b></p> <p><i>Syllabus for Term – I Exam: Part A (Accounting for Partnership and Companies</i></p>	Different assignments can be given to the students to understand the topic through role play method, Quiz, Class Tests
OCTOBER 2024	18	24	<p><b>Unit-4 Analysis of Financial Statements:-(Part)</b></p> <p><b>Financial statements of a Company:</b> Meaning, Nature, Uses and importance of financial Statement. Statement of Profit and Loss and Balance Sheet in prescribed form with major headings and sub headings (as per Schedule III to the Companies Act, 2013)</p> <p>Note: Exceptional items, extraordinary items and profit (loss) from discontinued operations are excluded.</p> <ul style="list-style-type: none"> <li>• Financial Statement Analysis: Meaning, Significance, Objectives, importance and limitations.</li> <li>• Tools for Financial Statement Analysis: Cash flow analysis, ratio analysis.</li> </ul>	Different assignments can be given to the students to understand the topic through role play method, Quiz, Class Tests



			<p><b>Unit-4 Analysis of Financial Statements :- (Part)</b>  <b>Accounting Ratios:</b> Meaning, Objectives, Advantages, classification and computation.                  • Liquidity Ratios: Current ratio and Quick ratio.                  • Solvency Ratios: Debt to Equity Ratio, Total Asset to Debt Ratio, Proprietary Ratio and Interest Coverage Ratio. Debt to Capital Employed Ratio.</p>	
NOVEMBER 2024	20	26	<p><b>Unit-4 Analysis of Financial Statements :- (Part)</b>  <b>Accounting Ratios:</b>                  Activity Ratios: Inventory Turnover Ratio, Trade Receivables Turnover Ratio, Trade Payables Turnover Ratio, Fixed Asset Turnover Ratio, Net Asset Turnover Ratio and Working Capital Turnover Ratio.                  • Profitability Ratios: Gross Profit Ratio, Operating Ratio, Operating Profit Ratio, Net Profit Ratio and Return on Investment.  <b>NOTE:</b> Net profit ratio is to be calculated on the basis of profit before and after tax  <b>Unit 5: Cash Flow Statement</b>                  Meaning, objectives Benefits, Cash and Cash Equivalents, Classification of Activities and preparation (as per AS 3 (Revised) (Indirect Method only)                  Note: (i) Adjustments relating to depreciation and amortization, profit or loss on sale of assets is including investments, dividend (both final and interim) and tax.                  (ii) Bank overdraft and cash credit to be treated as short term borrowings.                  (iii) Current Investments to be taken as Marketable securities unless otherwise specified.                  Meaning, objectives Benefits, Cash and Cash Equivalents, Classification of Activities and preparation (as per AS 3 (Revised) (Indirect Method only)  <b>Note:</b> Previous years' Proposed Dividend to be given effect, as prescribed in AS-4, Events occurring after the Balance Sheet date. Current years' Proposed Dividend will be</p>	<p>Different assignments can be given to the students to understand the topic through case-based questions, Quiz, Class Tests, Card based identification of different activities of Cash Flow Statement</p>

			accounted for in the next year after it is declared by the shareholders.	
DECEMBER 2024	12	20 P. Work	<b>Revision for Pre-Board – I Exam</b> <b>PRE-BOARD – I EXAM 04 TO 14 DEC. 2024</b> <b>Revision for Pre-Board – II Exam</b>	Practice of Sample Papers, Practice Tests
JANUARY 2025	14		<b>Revision for Pre-Board – II Exam</b> <b>PRE-BOARD – II EXAM 20 TO 30 JAN. 2025</b>	Practice of Sample Papers, Practice Tests
FEBRUARY 2025	22		<b>PRACTICAL EXAMINATION OF CBSE</b> <b>And</b> <b>Revision for Annual Examination</b>	Practice of Sample Papers, Practice Tests

**SUGGESTED QUESTION PAPER PATTERN BY CBSE**

Accountancy (Code No. 055)

Class XII (2024-25) Theory: 80 Marks

3 hrs.

Project: 20 Marks

SN	Typology of Questions	Marks	Percentage
1	<b>Remembering and Understanding:</b> Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers. Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions, and stating main ideas	44	55%
2	<b>Applying:</b> Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	19	23.75%
3	<b>Analysing, Evaluating and Creating:</b> Examine and break information into parts by identifying motives or causes. Make inferences and find evidence to support generalizations. Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria. Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions.	17	21.25%
	Total	80	100%

**NAVODAYA VIDYALAYA SAMITI**

**CLASS: - XII (2024-25)**

**SUBJECT: BUSINESS STUDIES (054)**

**THEORY - 80 MARKS**

**TIME-3 HRS**

**PROJECT - 20 MARKS**

<b>Units</b>		<b>Periods</b>	<b>Marks</b>
<b>Part A</b>	<b>PRINCIPLES AND FUNCTIONS OF MANAGEMENT</b>		
1	Nature and significance of Management	12	16
2	Principles of Management	14	
3	Business Environment	12	
4	Planning	14	14
5	Organizing	15	
6	Staffing	16	20
7	Directing	15	
8	Controlling	12	
<b>TOTAL</b>		<b>110</b>	<b>50</b>
<b>Part B</b>	<b>BUSINESS FINANCE AND MARKETING</b>		
1	Financial Management	20	15
2	Financial Markets	18	
3	Marketing	30	15
4	Consumer Protection	12	
<b>TOTAL</b>		<b>80</b>	<b>30</b>
<b>Part C</b>	<b>Project Work (One)</b>		
1	Project File		12
2	Viva		08
<b>TOTAL</b>		<b>30</b>	<b>20</b>

<b>PART A: PRINCIPLES AND FUNCTIONS OF MANAGEMENT</b>				
<b>Month</b>	<b>No. of Days</b>	<b>No. of Periods</b>	<b>Main Topic and Subtopics to be covered</b>	<b>Activities/Projects/ Practical/ Experiments to be held/Specific Assessment Tools suggested</b>
APRIL 2024	22	36	<p><b>Unit. 01 – Nature and significance of Management</b>                      Management - Concept, objectives, and importance.                      Management as Science, Art and Profession                      Levels of Management                      Management functions-planning, organizing, staffing, directing and controlling - Coordination- concept and importance</p> <p><b>Unit. 02 – Principles of Management</b>                      Principles of Management - Concept and significance                      Fayol’s principles of management Taylor’s Scientific management- principles and techniques</p> <p><b>Unit. 03 – Business Environment</b>                      Business Environment - Concept and Importance.                      Dimensions of Business Environment-Economic, Social, Technological, Political and Legal</p> <p><b>UT – I EXAMINATION 26 TO 29 APRIL, 2024</b>  <i>Syllabus for UT – I: Nature and Significance of Management, Principles of Management</i></p>	<p>Project work, Quiz, Mind map, Class Tests, Crossword Puzzles, Case Studies, Role Play</p>
JULY 2024	26	42	<p><b>Unit. 03 – Business Environment</b>                      Demonetization - concept and features</p> <p><b>Unit. 04 – Planning</b>                      Concept, importance and limitation                      Planning process                      Single use and standing plans. Objectives, Strategy, Policy, Procedure, method Rule, budget and Programme</p> <p><b>Unit. 05 – Organizing</b>                      Organizing - Concept and importance                      Organizing process                      Structure of organization- functional and divisional concept.                      Formal and informal organization- concept                      Delegation: concept, elements and importance                      Decentralization: concept and Importance</p> <p><b>Unit. 06 – Staffing</b>                      Concept and importance, Staffing as a part of Human Resource Management concept, Staffing Process, Recruitment Process, sources</p>	<p>Quiz, Mind map, Class Tests, Crossword Puzzles, Case Studies, Role Play</p>

AUGUST 2024	22	33	<p><b>Staffing (continuation)</b>                      Selection Process, Training and Development - Concept and importance, Methods of training - on the job and off the job - vestibule training, apprenticeship training and internship training</p> <p><b>Unit. 07 – Directing</b>                      Concepts and importance                      Elements of directing                      Motivation - concept, Maslow’s hierarchy of needs, Financial and non-financial incentives</p> <p>Leadership - concept, styles - authoritative, democratic and laissez faire                      Communication - concept, formal and informal communication; barriers to effective communication, how to overcome the barriers</p> <p><b>Unit. 08 – Controlling</b>                      Concept and importance, Relationship between planning and controlling, Steps in process of control</p> <p><b>UT – II EXAMINATION 08 TO 10 AUG, 2024</b>  <i>Syllabus for UT – II: Business Environment, Planning and Organising</i></p>	<p>Quiz, Mind map, Class Tests, Crossword Puzzles, Case Studies, Role Play</p>
SEPTEMBER 2024	17	22+ 5 P. Work	<p><b>Unit. 08 – Controlling</b>                      Relationship between planning and controlling, Steps in process of control</p> <p><b>Unit. 09 – Financial Management</b>                      Concept, role and objectives of Financial Management                      Financial decisions: investment, financing and dividend- Meaning and factors affecting                      Financial Planning - concept and Importance                      Capital Structure – concept and factors affecting capital structure</p> <p><b>Revision for Term 1 Examination</b>  <b>TERM 1 EXAM 23 September to 04 October, 2024</b>  <i>Syllabus for Term – I Exam: Nature and Significance of Management to Controlling</i></p>	<p>Quiz, Mind map, Class Tests, Crossword Puzzles, Case Studies, Role Play</p>
OCTOBER 2024	18	32	<p><b>Unit. 09 – Financial Management</b>                      Fixed and Working Capital - Concept and factors affecting their requirements</p> <p><b>Unit. 10 – Financial Markets</b>                      Financial Markets: Concept                      Money Markets: Concept                      Capital market and its types (primary and secondary)                      Stock Exchange - Functions and trading procedure</p>	<p>Project work, Quiz, Mind map, Class Tests, Crossword Puzzles, Case Studies, Role Play</p>

			Securities and Exchange Board of India (SEBI) - objectives and functions <b>Unit. 10 – Marketing</b> Marketing – Concept, functions and philosophies Marketing Mix – Concept and elements Product - branding, labelling and packaging – Concept	
NOVEMBER 2024	20	35	<b>Unit. 10 – Marketing</b> Price - Concept, Factors determining price Physical Distribution – concept, components and channels of distribution Promotion – Concept and elements; Advertising, Personal Selling, Sales Promotion and Public Relations <b>Unit. 10 – Consumer Protection</b> Concept and importance of consumer protection The Consumer Protection Act, 2019:Source: <a href="http://egazette.nic.in/WriteReadData/2019/210422.pdf">http://egazette.nic.in/WriteReadData/2019/210422.pdf</a> Meaning of consumer, Rights and responsibilities of consumers, who can file a complaint? Redressal machinery, Remedies available Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs)	Project work, Quiz, Mind map, Class Tests, Crossword Puzzles, Case Studies, Role Play
DECEMBER 2024	12		<b>Revision for Pre-Board – I Exam</b> <b>PRE-BOARD – I EXAM 04 TO 14 DEC. 2024</b> <b>Revision for Pre-Board – II Exam</b>	Practice of Sample Papers and Practice Tests
JANUARY 2025	14		<b>Revision for Pre-Board – II Exam</b> <b>PRE-BOARD – II EXAM 20 TO 30 JAN. 2025</b>	Practice of Sample Papers and Practice Tests
FEBRUARY 2025	22		<b>PRACTICAL EXAMINATION OF CBSE</b> <b>And</b> <b>Revision for Annual Examination</b> <b>ANNUAL EXAMINATION 15 FEB. 2025 ONWARDS</b>	Practice of Sample Papers and Practice Tests

**SUGGESTED QUESTION PAPER PATTERN BY CBSE  
Business Studies (Code No. 054)**

**Class XII (2024-25)**

**Theory: 80 Marks**

**Project: 20 Marks**

SN	Typology of Questions	Marks	Percentage
01	<b>Remembering and Understanding:</b> Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers. Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions, and stating main ideas	44	55%
02	<b>Applying:</b> Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way	19	23.75%
03	<b>Analyzing, Evaluating and Creating:</b> Examine and break information into parts by identifying motives or causes. Make inferences and find evidence to support generalizations. Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria. Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions.	17	21.25%
	Total	80	100%

**NOTE:** - Any change in the syllabus, if announced by the CBSE during the academic year 2023-24, has to be incorporated in the split-up syllabus by the concerned teachers accordingly. In this regard Teachers are requested to be in touch with the CBSE website.

NAVODAYA VIDYALAYA SAMITI,  
CLASS : XII SUBJECT : COMPUTER SCIENCE

<b>MAX. MARKS: 100 (70 Theory + 30 Practical)</b>				
<b>Distribution of Marks and Periods</b>				
Unit No	Name of The Chapter/ unit	Marks	Periods	
			THEORY	PRACTICALS
I	Computational Thinking and Programming - 2	40	70	50
II	Computer Networks	10	15	—
III	Database Management	20	25	20
	<b>Total</b>	<b>70</b>	<b>110</b>	<b>70</b>
	<b>Practicals</b>	<b>30</b>		
	<b>Grand Total</b>	<b>100</b>	<b>110</b>	<b>70</b>

Month.	No. of Days	No. of periods of Marks for Unit/Chant	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
April	22	17T+13P 40 MARKS	<p><b>UNIT : 1 Revision of Python topics covered in Class XI.</b></p> <p><b>Functions:</b></p> <ul style="list-style-type: none"> <li>• types of function (built-in functions, functions defined in module, user defined functions),</li> <li>• creating user defined function, arguments and parameters,</li> <li>• default parameters,</li> <li>• positional parameters,</li> <li>• function returning value(s),</li> <li>• flow of execution,</li> <li>• scope of a variable (global scope, local scope)</li> </ul>	Revision of all concepts of Python programming taught in class XI i.e. Strings, Conditional statements, iterative statement, list, tuples, dictionaries and Predefined functions in random module, math module etc Python programs to implement Functions, passing parameters and returning values.
<b>PWT-01/UT- 01 (26-29 APRIL 2024)</b>				



Month.	No. of Days	No. of periods of Marks for Unit/Chant	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
JULY	27	16T + 14 P	<p><b>Introduction to files</b>, types of files (Text file, Binary file, CSV file), relative and absolute paths</p> <p>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</p>	<p>Python programs to open and close the file, read write and append to a file.</p> <p>Python program to implement text files and binary files. Projects can be assigned with data file handling.</p>
AUGUST	22	16T + 14 P	<p><b>Introduction to files</b> (Continued....)</p> <ul style="list-style-type: none"> <li>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.</li> <li>CSV file: import csv module, open / close csv file, write into a csv file using csv.writer() and read from a csv file using csv.reader()</li> </ul>	<p>Python programs to implement Binary file.</p> <p>Python programs to implement Stack using lists</p>
<b>PWT-02/ UT- 02 (08-10 AUG 2024)</b>				

Month.	No. of Days	No. of periods	of Marks for Unit/Chant	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
SEPTEMBER		18T+10P	10 MARKS	<p><b>Data Structure:</b></p> <ul style="list-style-type: none"> <li>• Stack, operations on stack (push &amp; pop),</li> <li>• implementation of stack using list.</li> </ul> <p><b>Unit II: Computer Networks</b></p> <ul style="list-style-type: none"> <li>• Evolution of networking:</li> <li>• introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET)</li> <li>• Data communication terminologies: concept of communication,</li> <li>• components of data communication (sender, receiver, message, communication media, protocols),</li> <li>• measuring capacity of communication media (bandwidth, data transfer rate), IP address,</li> <li>• switching techniques (Circuit switching, Packet switching)</li> <li>• Transmission media: Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves),</li> <li>• Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card)</li> </ul>	<p>Python programs to implement CSV file.</p> <p>Different Devices used in networking can be shown to the students. Network topologies implemented in the school can be described.</p>
<b>MID TERM (23 SEPT TO 04 OCT 2024)</b>					

Month.	No. of Days	No. of periods	of Marks for Unit/Chant	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
OCTOBER	22	20T+13P	20 MARKS	<p><b>Network topologies and Network types:</b> types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree) Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP Introduction to web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting</p> <p><b>Unit III:</b> <b>Database Management Database concepts:</b></p> <ul style="list-style-type: none"> <li>• introduction to database concepts and its need</li> <li>• Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key)</li> <li>• Structured Query Language: introduction, Data Definition Language and Data Manipulation Language,</li> <li>• data type (char(n), varchar(n), int, float, date),</li> <li>• 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, select,</li> <li>• operators (mathematical, relational and logical),</li> <li>• aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete Command.</li> </ul>	<p>Hands on Networking and various type of topology Installation of Mysql and hands on practicals on various queries on DDL and DML commands. Demonstrating the students to install a suitable connector for connecting databases with python. Projects can be assigned to students to implement applications mentioned in the practical section below.</p>

Month.	No. of Days	No. of periods of Marks for Unit/Chant	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
NOVEMBER	26	18T+10P	<b>Unit III:</b> <b>Database Management Database concepts:</b> (Continued.....) aggregate functions (max, min, avg, sum, count), group by, having clause Joins: cartesian product on two tables, equi-join and natural join <b>Interface of python with an SQL database:</b> connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using fetchone(), fetchall(), rowcount, creating database connectivity applications	Programs on connecting python with sql and executing the queries through python programs and printing the result with various fetch methods.
<b>DECEMBER</b> Revision, Project Work Preparation & I Pre Board Examination				
<b>JANUARY</b> Revision, Finalisation of Project & II Pre Board Examination				
<b>FEBRUARY</b> Revision, CBSE Practical Examination				
<b>MARCH - APRIL</b> CBSE Board Examination				

## Practical

S.No	Unit Name	Marks (Total=30)
1	Lab Test: 1. Python program (60% logic + 20% documentation + 20% code quality)	8
	2. SQL queries (4 queries based on one or two tables)	4
2	Report file: • Minimum 15 Python programs. • SQL Queries – Minimum 5 sets using one table / two tables. • Minimum 4 programs based on Python - SQL connectivity	7
3	Project (using concepts learnt in Classes 11 and 12)	8
4	Viva voce	3

**Suggested Practical List:**  
**Python Programming**

- Read a text file line by line and display each word separated by a #.
- Read a text file and display the number of vowels/consonants/uppercase/lowercase characters in the file.
- Remove all the lines that contain the character 'a' in a file and write it to another file.
- Create a binary file with name and roll number. Search for a given roll number and display the name, if not found display appropriate message.
- Create a binary file with roll number, name and marks. Input a roll number and update the marks.
- Write a random number generator that generates random numbers between 1 and 6 (simulates a dice).
- Write a Python program to implement a stack using list.
- Create a CSV file by entering user-id and password, read and search the password for given user id.

### **Database Management**

- Create a student table and insert data.

### **Implement the following SQL commands on the student table:**

- ALTER table to add new attributes / modify data type / drop attribute
- UPDATE table to modify data
- ORDER By to display data in ascending / descending order
- DELETE to remove tuple(s)
- GROUP BY and find the min, max, sum, count and average
- Similar exercises may be framed for other cases.
- Integrate SQL with Python by importing a suitable module.

### **Suggested Reading Material**

- NCERT Textbook for COMPUTER SCIENCE (Class XII)
- Support Materials on the CBSE website.

### **Project**

- The aim of the class project is to create something that is tangible and useful using Python file handling/ Python-SQL connectivity. This should be done in groups of two to three students and should be started by students at least 6 months before the submission deadline. The aim here is to find a real world problem that is worthwhile to solve. Students are encouraged to visit local businesses and ask them about the problems that they are facing. For example, if a business is finding it hard to create invoices for filing GST claims, then students can do a project that takes the raw data (list of transactions), groups the transactions by category, accounts for the GST tax rates, and creates invoices in the appropriate format. Students can be extremely creative here. They can use a wide variety of Python libraries to create user friendly applications such as games, software for their school, software for their disabled fellow students, and mobile applications, of course to do some of these projects, some additional learning is required; this should be encouraged. Students should know how to teach themselves. The students should be

sensitised to avoid plagiarism and violations of copyright issues while working on projects. Teachers should take necessary measures for this.

**NOTE:** Any changes in the syllabus, if announced by CBSE during the academic year 2024-25, has to be incorporated in the split up of syllabus by the concerned teachers and Principals accordingly. In this regard principals and teachers will always remain in touch with CBSE and its website.

NAVODAYA VIDYALAYA SAMITI,

CLASS : XII SUBJECT : INFORMATICS PRACTICES

<b>MAX. MARKS: 100 (70 Theory + 30 Practical)</b>					
<b>Distribution of Marks and Periods</b>					
Unit No	Unit Name	Marks	Periods		
		Theory	Theory	Practical	Total
1	Data Handling using Pandas and Data Visualization	25	25	25	50
2	Database Query using SQL	25	20	17	37
3	Introduction to Computer Networks	10	12	0	12
4	Societal Impacts	10	14	–	14
Project		–	–	7	7
Practical		30	–	–	–
<b>TOTAL</b>		<b>100</b>	<b>71</b>	<b>49</b>	<b>120</b>

Month.	No. of Days	No. of periods	Weightage of Marks for Unit/Chapter	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/Projects
April	22	18T+10P	25 MARKS	<b>Unit 1: Data Handling using Pandas and Data Visualization</b> <b>Data Handling using Pandas – I</b> <ul style="list-style-type: none"> <li>• Introduction to Python libraries – Pandas, Matplotlib.</li> <li>• Data Structures in Pandas – Series and DataFrames</li> <li>• Series: Creation of Series from – ndarray, dictionary, scalar value; mathematical operations; Head and Tail functions; Selection, Indexing, and Slicing.</li> </ul>	Practice of topics and Practical programs.  Activities as specified in NCERT Textbook.
<b>PWT-01/UT- 01 (26-29 APRIL 2024)</b>					

JULY	27	10T+16P	<u>CONTINUE</u>	<p>4. Data Frames: creation – from the dictionary of Series,</p> <p>5. list of dictionaries, Text / CSV files; display; iteration;</p> <p>6. Operations on rows and columns: add, select, delete, rename;</p> <p>7. Head and Tail functions; Indexing using Labels, Boolean Indexing.</p>	The practice of topics and Practical programs. Activities as specified in NCERT Textbook.
AUGUST	22	16T+12P	25 MARKS	<ul style="list-style-type: none"> <li>Importing / Exporting Data between CSV files and DataFrames.</li> </ul> <p><b>Data Visualization</b></p> <ul style="list-style-type: none"> <li>Purpose of plotting; drawing and saving the following types of plots using Matplotlib – lineplot, bargraph, and histogram.</li> <li>Customizing plots: adding labels, titles, and legend in plots.</li> </ul> <p><b>Unit 2: Database Query using SQL</b></p> <ul style="list-style-type: none"> <li>Math functions: POWER(), ROUND(), MOD()</li> <li>Text functions: UCASE() / UPPER(), LCASE() / LOWER(), MID() / SUBSTRING() / SUBSTR(), LENGTH(), LEFT(), RIGHT(), INSTR(), LTRIM(), RTRIM(), TRIM().</li> <li>Date Functions: NOW(), DATE(), MONTH(), MONTHNAME(), YEAR(), DAY(), DAYNAME().</li> </ul>	The practice of topics and Practical programs and SQL.
<b>PWT-02/ UT- 02 (08-10 AUG 2024)</b>					
SEPTEMBER		10T+16P	<u>CONTINUE.</u>	<ul style="list-style-type: none"> <li>Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (*).</li> <li>Querying and manipulating data using Groupby, Having, and Order by clauses.</li> </ul>	The practice of topics and Practical programs and SQL.
<b>MID TERM (23 SEPT TO 04 OCT 2024)</b>					



<b>OCTOBER</b>	<b>22</b>	<b>20T+08P</b>	<b>10 MARKS</b>	<p><b>Unit 3: Introduction to Computer Networks</b></p> <ul style="list-style-type: none"> <li>• Introduction to networks, Types of networks: LAN, MAN, WAN</li> <li>• Network Devices: modem, hub, switch, repeater, router, gateway</li> <li>• Network Topologies: Star, Bus, Tree, Mesh</li> <li>• Introduction to Internet, URL, WWW, and its applications – Web, email, Chat, VoIP.</li> <li>• Website: Introduction, the difference between a website and webpage, static vs dynamic web page, web server, and hosting of a website.</li> <li>• Web Browsers: Introduction, commonly used browsers, browser settings, add-ons, plug-ins, cookies.</li> </ul>	Activities as specified in the NCERT Textbook
<b>NOVEMBER</b>	<b>26</b>	<b>20T+08P</b>	<b>10 MARKS</b>	<p><b>Unit 4: Societal Impacts</b></p> <p>1. Digital footprint, net, and communication etiquettes, data protection, intellectual property rights (IPR)</p> <ul style="list-style-type: none"> <li>• plagiarism, licensing and copyright, free and open-source software (FOSS), cybercrime and cyber laws, hacking, phishing, cyberbullying, an overview of the Indian IT Act.</li> <li>• E-waste: hazards and management.</li> <li>• Awareness about health concerns related to the usage of technology.</li> </ul>	<p>Practical on MySQL functions Browsers and Websites</p> <p>Project Work</p>
<b>DECEMBER</b> Revision, Project Work Preparation & I Pre Board Examination					
<b>JANUARY</b> Revision, Finalisation of Project & II Pre Board Examination					
<b>FEBRUARY</b> Revision, CBSE Practical Examination					
<b>MARCH - APRIL</b> CBSE Board Examination					

**Practical**

S.No.	Unit Name	Marks
1	Programs using Pandas and Matplotlib	8
2	SQL Queries	7

3	Practical file (minimum of 15 programs based on Pandas, 4 based on Matplotlib, and 15 SQL queries mustbe included)	5
4	Project Work (using concepts learned in classes XI and XII)	5
5	Viva–Voce	5
	<b>Total</b>	<b>30</b>

### Suggested Practical List

#### Data Handling

1. Create a panda’s series from a dictionary of values and a ndarray
2. Given a Series, print all the elements that are above the 75th percentile.
3. Create a Data Frame quarterly sales where each row contains the item category, item name, and expenditure. Group the rows by the category and print the total expenditure per category.
4. Create a data frame for examination result and display row labels, column labels data types of each column and the dimensions
5. Filter out rows based on different criteria such as duplicate rows.
6. Importing and exporting data between pandas and CSV file

#### Visualization

1. Given the school result data, analyses the performance of the students on different parameters, e.g subject wise or class wise.
2. For the Data frames created above, analyze, and plot appropriate charts with title and legend.
3. Take data of your interest from an open source (e.g. data.gov.in), aggregate and summarize it. Then plot it using different plotting functions of the Matplotlib library.

#### Data Management

1. Create a student table with the student id, name, and marks as attributes where the student id is the primary key.
2. Insert the details of a new student in the above table.
3. Delete the details of a student in the above table.
4. Use the select command to get the details of the students with marks more than 80.
5. Find the min, max, sum, and average of the marks in a student marks table.
6. Find the total number of customers from each country in the table (customer ID, customer Name, country) using group by.

7. Write a SQL query to order the (student ID, marks) table in descending order of the marks.

### **Project Work**

The class project aims to create tangible and useful IT applications. The learner may identify a real-world problem by exploring the environment. E.g., Students can visit shops/business places, communities, or other organizations in their localities and inquire about the organization's functioning and how data are generated, stored, and managed.

The learner can take data stored in CSV or database files, analyse using Python libraries, and generate appropriate charts to visualize.

If an organization maintains data offline, the learner should create a database using MySQL and store the data in tables. Data can be imported into Pandas for analysis and visualization.

Learners can use Python libraries of their choice to develop software for their school or any other social good.

Learners should be sensitized to avoid plagiarism and violation of copyright issues while working on projects. Teachers should take the necessary measures for this. Any resources (data, images, etc.) used in the project must be suitably referenced.

The project can be done individually or in groups of 2 to 3 students. Students should start the project at least 6 months before the submission deadline.

#### **Note:**

Any changes in the syllabus, if announced by CBSE during the academic year 2024–25, have to be incorporated in the split-up syllabus by the concerned teachers and Principals accordingly. In this regard, Principals and teachers will always remain in touch with CBSE and its website.

**NAVODAYAVIDYALAYASAMITI**  
**CLASS: XII (2024-25)**  
**COURSE STRUCTURE**

**SUBJECT: BIOTECHNOLOGY    SUBJECT CODE: 045**

**One Paper**

**Max. Marks: 70+30**

**Time: 3 hrs.**

<b>Unit No</b>	<b>Name of The Chapter/ unit</b>	<b>Marks</b>	<b>Periods</b>
<b>UNIT-V Protein and Gene Manipulation</b>	<b>CHAPTER1:</b> Recombinant DNA Technology	10	25
	<b>CHAPTER2:</b> Protein Structure and Engineering	14	25
	<b>CHAPTER3:</b> Genomics, Proteomics and Bioinformatics	16	28
<b>UNIT-VI Cell Culture and Genetic Manipulation</b>	<b>CHAPTER4 :</b> Microbial Cell Culture and its Applications	8	25
	<b>CHAPTER5:</b> Plant Cell Culture and Applications	12	18
	<b>CHAPTER6:</b> Animal Cell Culture and Applications	10	15
	<b>Practical</b>	30	Two Periods Per Week
	<b>TOTAL</b>	<b>100</b>	<b>136</b>

**SUBJECT: BIOTECHNOLOGY (Theory)**

**CLASS-XII SUBJECTCODE: 045**

**One Paper Time: 3 hrs. Max. Marks: 70**

Month	No. Of Days	No. Period	Units/Subunits/Chapters/topics/ to be covered	Details of practical/ project to be given	Spotters /Activities	Tests/ Assignments
APRIL 2024	22	22+6=28	<b>Unit V: Protein and Gene Manipulation</b> <b>Chapter 1: Recombinant DNA Technology</b> Introduction, tools of Recombinant DNA technology, Making rDNA molecule, Introduction of recombinant DNA into host cells, Identification of recombinants, Polymerase Chain Reaction (PCR), DNA sequencing.	1. Use of special equipment in biotechnology experiments. 2. Isolation of bacterial plasmid DNA		<b>UT-1</b>
JULY 2024	26	26+8=34	<b>Chapter-2: Protein Structure and Engineering</b> Introduction to the world of proteins, Structure-function, Relationship in proteins, Characterization of proteins, Protein based products, Designing proteins (Protein Engineering).	<ul style="list-style-type: none"> <li>➤ Detection of DNA by gel electrophoresis</li> <li>➤ Estimation of DNA by UV-Spectroscopy</li> </ul>	<ul style="list-style-type: none"> <li>❖ Test the presence of proteins.</li> <li>❖ Estimate the amount of proteins in plant and animal samples.</li> </ul>	
AUGUST 2024	22	22+6=28	<b>Chapter 3. Genomics, Proteomics and Bioinformatics</b> Gene prediction and counting, Genome similarity, SNPs and Comparative genomics, Functional genomics, Proteomics, Information sources, Analysis using bioinformatics tools.	<ul style="list-style-type: none"> <li>➤ Reading of a DNA sequencing gel to arrive at the sequence.</li> <li>➤</li> </ul>	<ul style="list-style-type: none"> <li>❖ Prepare a list of the scope of stem cell technology.</li> </ul>	<b>UT-2</b>

Month	No. Of Days	No. Period	Units/Subunits/Chapters/topics/ to be covered	Details of practical/ project to be given	Spotters /Activities	Tests/ Assignments
SEPTEMBER 2024	17	17+5=22	<b>Unit VI: Cell Culture and Genetic Manipulation</b> <b>Chapter 4: Microbial Cell Culture and its Applications</b> Introduction, Microbial nutrition and culture techniques, Measurement and kinetics of microbial growth, Isolation of microbial products, Strain isolation and improvement, Applications of microbial culture technology.	<ul style="list-style-type: none"> <li>➤ Cell viability assay using Evan's blue dye exclusion method.</li> <li>➤ Isolation of bacteria from curd &amp; staining of bacteria</li> </ul>		<b>MID-TERM (TERM-I)</b>
OCTOBER 2024	18	18+6=24	<b>Chapter 5: Plant Cell Culture and Applications</b> Introduction, Cell and tissue culture techniques, Applications of cell and tissue culture, Gene transfer methods in plants, Transgenic plants with beneficial traits, Biosafety of transgenic plants.	<ul style="list-style-type: none"> <li>➤ Project work</li> </ul>		
NOVEMBER 2024	20	20+6=26	<b>Chapter 6: Animal Cell Culture and Applications</b> Introduction, Animal cell culture techniques, Applications of animal cell culture, Stem cell technology.			
DECEMBER 2024	10	10+2=12	<b>DECEMBER 2024:</b> Revision, Practice test and <b>PRE-BOARD-I</b>			<b>PB-I</b>
JANUARY 2025	05	05+02=07	<b>JANUARY 2025:</b> Revision, Practice test, and <b>PRE-BOARD-II</b>			<b>PB-II</b>

Month	No. Of Days	No. Period	Units/Subunits/Chapters/topics/ to be covered	Details of practical/ project to be given	Spotters /Activities	Tests/ Assignments
FEBRUARY 2025	12	12+4=16	<b>FEBRUARY 2025:</b> Revision, Practicetest and <b>CBSE ANNUAL EXAM (From 15 Feb 2025 onwards as per CBSE Schedule)</b>			<b>CBSE ANNUAL EXAM</b>

**PRACTICALS 30 Marks**

**Note: Every student will be required to do the following experiments during the academic session.**

1. Use of special equipment in biotechnology experiments
2. Isolation of bacterial plasmid DNA
3. Detection of DNA by gel electrophoresis
4. Estimation of DNA by UV spectroscopy
5. Isolation of bacteria from curd & staining of bacteria
6. Cell viability assay using Evan's blue dye exclusion method
7. Data retrieval and database search using internet site NCBI and download a DNA and protein sequence from internet, analyze it and comment on it
8. Reading of a DNA sequencing gel to arrive at the sequence
9. Project work

**Scheme of Evaluation**

**Time: 3 Hours**

**Max. Marks 30**

**The scheme of evaluation at the end of the session will be as under:**

A	Two experiments	6+6 (only one computer based practical)
	Practical record	04
	Viva on Practical	04
B	Project work	
	Write up	05
	Viva on project	05

	<b>Total</b>	<b>30</b>
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**Note: -More emphasis should be given on hands on work in projects. Prescribed Books:**

1. **A Text Book of Biotechnology** -Class XI: Published by CBSE, New Delhi
2. **A reference- Biotechnology**-Class XI: Published by NCERT, New Delhi
3. **A Laboratory Manual of Biotechnology** -Class XI: Published by CBSE, New Delhi
4. **A Text Book of Biotechnology-Class XII**: Published by CBSE, New Delhi
5. **A Laboratory Manual of Biotechnology**-Class XII: Published by CBSE, New Delhi