नवोदय विद्यालय समिति
NAVODAYA VIDYALAYA SAMITI

पाठ्यक्रम विभाजन
SPLIT UP OF SYLLABUS

(2025-26)

शिक्षा मंत्रालय का एक स्वायत्त संस्थान / An Autonomous Body Under Ministry of Education
स्कूल शिक्षा एवं साक्षरता विभाग / Dept. of School Education & Literacy
भारत सरकार / GOVT. OF INDIA
B 15, Institutional Area, Sector 62, Noida, Uttar Pradesh 201307

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SPLIT UP OF SYLLABUS FOR

CLASS IX

NAVODAYA VIDYALAYA SAMITI

CLASS: IX SUBJECT: ENGLISH

Unit Name.	Name of the Chapter/ Unit	Marks
Reading Comprehension	Conceptual understanding, decoding, analyzing, inferring, interpretingandvocabulary	20
Writing Skill & Grammar	Creative expression of an opinion, reasoning, justifying, illustrating, appropriate style and tone, using appropriate formatand fluency, applying conventions, using integrated structures with accuracy and fluency	20
Language Through Literature	Recalling, reasoning, appreciating, applying iterary conventions, illustrating and justifying etc. Extract relevant information, identifying the central theme and sub-theme, understanding the writer's message and writing fluently.	40
Total		**80**
Internal Assessment		20
GrandTotal		**100**

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 /JUNE 2025	24	28	1.The Fun They Had- by Isaac Asimov 2.The Lost Child- by Mulk Raj Anand (S.R.) 3.The Road Not Taken - by Robert Frost 4.Wind by Subramania Bharati	1.Exercises- Tenses	The Fun They Had - *Toy Based Pedagogy* 1.Debate – online Vs offline classes The Lost Child *Story Based Pedagogy* 1.Mind map-creating a mind map on "The Road Not Taken" *Art Integrated Pedagogy* 1.Making a PPT on the poem 2. Describing such a decision that had changed their course of life. Wind -*Art Integrated Pedagogy* 1.Wind-Picture description Tenses Gap Filling- using tenses Assessment tools – Editing based on tenses
			PERIODIC WRITTEN TEST -I		

JULY 2025	27	31	5."The Sound Of Music" i. Evelyn Glennie: ii. Deborah Cowley iii. Bismillah Khan 6. "Rain On The Roof" by Coates Kinney 7. "The Adventures Of Toto" by Ruskin Bond (S. R.) 8."The Little Girl" by Katherine Mansfield	1.Editing based on modals 2.Sentence re-ordering 3.Letter writing skills	The Sound Of Music *Toy Based Pedagogy* 1. Making of musical instrument from waste material. 2. Collecting pictures of famous musicians and the musical instruments Rain on the roof- *Art Integrated Pedagogy* 1. Compose your own poem on rain /leaf/ cloud etc The Adventure Of Toto *Art Integrated Pedagogy/Story Telling based/ Toy Based Pedagogy* 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 *Art Integrated Pedagogy* 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

AUGUST 2025	24	28	9.A Truly Beautiful Mind 10. The Lake Isle On Innisfree by William Butler Yeats 11. Iswaran the Storyteller by R. K. Laxman (S.R.)	1.Modals- Editing based on modals , 1. Article, Speech or Debate based on visual or verbal input. 2. Writing a Diary- with verbal inputs Clause: Noun Clauses, Adverb Clauses of condition and time, Relative clauses	A Truly Beautiful Mind *Art Integrated Pedagogy* *Story Telling based Pedagogy-Science fiction* 1.Write a book review on any of the following books by Albert Einstein- The World As I See It/ The Time Machine The Lake Isle Of Innisfree- *Art Integrated Pedagogy-* 1. Paint a beautiful landscape. 2. Search for beautiful places of India where you would like to spend your leisure time. Prepare a portfolio/ collage of those places. Iswaran the Storyteller *Story Telling Based Pedagogy-* 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. 2. Debate about Ghost is figment of imagination or real ‘Iswaran the Storyteller’.
			PERIODIC WRITTEN TEST- II		

SEPTEMBER 2025	25	15	12.The Snake and The Mirror - by Vaikom Muhammad Basheer 13.A Legend Of The Northland- by Phoebe Cary 14.In The Kingdom of Fools from Kannada Folktale (ed.) by A. K. Ramanujan (S.R.)	1.Report for a school magazine 2. Story Writing – picture or verbal inputs 3.Reported Speech- Commands, Requests, Statements, and Questions	The Snake and The Mirror *Toy based Pedagogy and Story Telling based Pedagogy-* 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 2. Framing MCQ type questions based on the chapter The Snake and The Mirror. A Legend Of The Northland *Story Telling Based Pedagogy/ Art Integrated Pedagogy* 1. Pictorial representation of the story in the poem. 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. 3. Collect information about the people (living or dead) of your society who did such charities. 4.Reciting poems In The Kingdom Of Fools *Art Integrated Pedagogy/Story Telling based Pedagogy* 1.Making a Mind map 2.Role play 3. Make a chart on the rules of Reported Speech.
	TERM I EXAMINATION 12-to 25 SEPTEMBER 2025				

OCTOBER 2025	25	20	15.The Happy Prince by Oscar Wilde (S.R.) 16.My Childhood by A. P. J. Abdul Kalam	1, Story Writing 2. Reported speech- commands, statements, question, 3.Determiners	The Happy Prince *Art Integrated Pedagogy/Story Telling based Pedagogy* 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 *Art Integrated Pedagogy/Story Based Pedagogy* 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
NOVEMBER 2025	24	28	17.No Men Are Foreign by James Kirkup 18.The Last Leaf by O. Henry (S.R.)	1. Report for a school magazine 2. Story Writing – picture or verbal inputs	No Men Are Foreign *Art Integrated Pedagogy-* 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 *Story telling based/ Art Integrated Pedagogy* 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

DECEMBER 2025	26	30	19.Reach For The Top 1. Santosh Yadav 2. Maria Sharapova 20.On Killing a Tree by Gieve Patel 21.A House Is Not a Home by Zan Gaudioso (S.R.)	1.Descriptive Paragraph writing	Reach For The Top- *Art Integrated Pedagogy/ Story Telling Based/Sports Integrated Pedagogy* 1.Using newspapers clipping as a resource for showing Success stories On Killing A Tree *Art Integrated Pedagogy* 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 *Art Integrated Pedagogy/ Story Telling Based* 1.A house is not a home- showing/ drawing cartoons /pictures/sketches 2. Write a note on pet care.
			PERIODIC WRITTEN TEST III		
JANUARY 2026	25	29	22.Kathmandu by Vikram Seth 23.If I were you by Douglas James 24.A Slumber Did My Spirit Seal by William Wordsworth	1.Report for a school magazine 2.Story Writing and Picture description on visual or verbal inputs	Kathmandu- *Art Integrated Pedagogy* What is Nepal famous for in the world? Kathmandu-Picture description and collection of information about one place. If I were you *Art Integrated/Story Telling Based* A slumber did my spirit seal Listening skill and enhance speaking skill Assessment tools Integrated grammar practice -Listening skill and enhance speaking skill

FEBRUARY 2026	24	28	25.The Beggar by Anton Chekhov 26. Unseen Comprehension passage 27. Transformation of sentences-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
	PERIODIC WRITTEN TEST IV				
MARCH 2026	25	14	**ASSESSMENT OF SPEAKING & LISTENING (ASL), REVISION OF LESSONS, REMEDIAL TEACHING, STRATEGIES FOR IMPROVEMENT OF CLASS AVERAGE.**		
	TERM II EXAMINATION **(16-to 28 MARCH-2026)**				

List of Deleted Content: (1) Packing (2) The Duck and the Kangroo (3) The Bond of Love (4) The snake trying (5) The Accidental Tourist (6) Weathering the Storm in Ersama

Note:

Relevant unit from workbook may be taken up.

Internal Assessment as per CBSE Guidelines.

Refer CBSE Teacher's Manual for Pre-reading and Post- reading activities.

Conduct ESL/ASL activities based on the activities mentioned and maintain record of it for Internal Assessment.

नवोदय विद्यालय समिति

कक्षा 9 हिन्दी अ **(002 कोड)**

परीक्षा हेतु पाठ्यक्रम विनिर्देशन 2025-26

खंड		
क	आपठित बोध	14
ख	व्यावहारिक व्याकरण	16
ग	पाठ्यपुस्तक एवं पूरक पाठ्यपुस्तक	30
घ	रचनात्मक लेखन	20

निर्धारित समय- 3 घंटे **भारांक-80 कक्षा-9**

विषय हिन्दी'अ' विषय कोड-002

	परीक्षा भार विभाजन			
	विषयवस्तु			भार
	खंड क अपठित बोध (14 अंक)			
1	अपठित गद्यांश पर बोध, चिंतन, विश्लेषण, सराहना आदि पर बहुविकल्पीय अति लघूत्तरात्मक एवं लघूत्तरात्मक प्रश्न			
		एक अपठित गद्यांश लगभग 250 शब्दों का, इसके आधार पर एक अंकीय तीन बहु विकल्पीय प्रश्न (1 x 3 = 3) अति लघूत्तरात्मक एवं लघूत्तरात्मक प्रश्न (2 x 2 = 4) पूछे जाएंगे |	7+7	14
	1	एक अपठित काव्यांश अधिकतम 120 शब्दों का, इसके आधार पर एक अंकीय तीन बहु विकल्पीय प्रश्न (1 x 3 = 3) अति लघूत्तरात्मक एवं लघूत्तरात्मक प्रश्न (2 x 2 = 4) पूछे जाएंगे |		
		खंड ख व्यावहारिक व्याकरण (16 अंक)		
2	व्याकरण केलिए निर्धारित विषयों पर विषयवस्तु का बोध, भाषिक बिन्दु / संरचना आदि पर अति लघूत्तरात्मक प्रश्न (1 x 16= 16) कुल 20 प्रश्न पूछे जायेंगे जिनमें से केवल 16 प्रश्नों के उत्तर देने होंगे।			16
	1	शब्द निर्माण उपसर्ग -2 अंक, प्रत्यय -2 अंक, समास -4 अंक उपसर्ग प्रत्यय 5 में से 4 करने होंगे, समास 5 में से 4 प्रश्न करने होंगे	08	

	2	अर्थ की दृष्टि से वाक्य भेद 4अंक) अनुनासिक (5 में से 4 प्रश्न करने होंगे)	04	
	3	अलंकार -4 अंक) (5 में से 4 प्रश्न करने होंगे)	04	
3		खंड ग पाठ्यपुस्तक स्पर्श भाग 1 (30 अंक)		
		गद्य खंड (पाठ्यपुस्तक)		11
	1	क्षितिज भाग 1 से निर्धारित पाठों में से गद्यांश के आधार पर एक अंकीय पाँच बहु विकल्पीय प्रश्न पूछे जाएंगे | (1×5=5)	5	
	2	क्षितिज भाग 1 से निर्धारित पाठों में से गद्यांश के आधार पर विषय वस्तु का ज्ञान बोध अभिव्यक्ति आदि पर तीन प्रश्न पूछे जाएंगे (25- 30 शब्द सीमा) विकल्प सहित 4 में से 3 प्रश्न करने होंगे (2×3=6)	2+2+2	
		काव्यखंड (पाठ्यपुस्तक)		11
	3	क्षितिज भाग 1 से निर्धारित पाठों में से पदयांश के आधार पर एक अंकीय पाँच बहु विकल्पीय प्रश्न पूछे जाएंगे | (1×5=5)	5	
	4	क्षितिज भाग 1 से निर्धारित पाठों में से पदयांश के आधार पर विषय वस्तु का ज्ञान, बोध, अभिव्यक्ति आदि पर तीन प्रश्न पूछे जाएंगे (25- 30 शब्द सीमा) विकल्प सहित 4 में से 3 प्रश्न करने होंगे (2×3=6)	2+2+2	
	5	पूरक पाठ्यपुस्तक (कृत्तिका भाग 1)		8
		कृत्तिका भाग 1 से निर्धारित पाठों पर आधारित दो प्रश्न पूछे जाएंगे (50-60 शब्द सीमा | विकल्प सहित 03 में से 02 प्रश्न करने होंगे (4×2=8)	4+4	
		खंड घ रचनात्मक लेखन (20 अंक)		20
	1	विभिन्न विषयों और संदर्भों पर विद्यार्थियों को तर्क संगत विचार प्रकट करने की क्षमता को परखने केलिए संकेत बिन्दुओं पर आधारित सम सामयिक एवं व्यावहारिक जीवन से जुड़े हुए तीन विषयों में से किसी एक विषय पर लगभग 120 शब्दों में अनुच्छेद लेखन (6×1=6)	6	
	2	अभिव्यक्ति की क्षमता पर केन्द्रित औपचारिक या अनौपचारिक विषयों में लगभग 100 शब्दों में किसी एक विषय पर पत्र (5×1=5)	5	
4	3	विविध विषयों पर आधारित लगभग 100 शब्दों में ई मेल लेखन (5×1=5) दिए गए विषय / शीर्षक आदि के आधार पर लगभग 100 शब्दों में लघुकथा लेखन (5×1=5)	5	
	4	दिए गए विषय / परिस्थिति के आधार पर लगभग 80 शब्दों में संवाद लेखन विकल्प सहित (4×1=4) अथवा व्यावहारिक जीवन से संबन्धित विषयों पर आधारित लगभग 80 शब्दों में	4	

		सूचना लेखन (4×1=4)		
कुल				80
	आंतरिक मूल्यांकन			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

पाठ्यक्रम विभाजन

कक्षा-9 विषय-हिंदी 'अ (कोड 002)

माह	कार्य दिवस	कालांश	विषयवस्तु /पाठ का नाम	परियोजना कार्य /क्रियाकलाप
अप्रैल/ जून 2025	24	24	क्षितिज भाग-1 दो बैलों की कथा (कहानी)- (मुंशी प्रेमचंद) ल्हासाकी ओर- राहुल सांकृत्यायन कबीर की साखियों (काव्य) सबद- कबीर व्याकरण- शब्द निर्माण-उपसर्ग , प्रत्यय अपठितगद्यांश	कक्षा में दो बैलों की कथा के आधारपरसद्गुणोंपरपरिचर्चाव लेखन साखियां-संग्रह, कबीर के समाजसुधारों का साखियों के आधार पर वर्णन
आवधिक परीक्षा -I				
जुलाई 2025	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 2025	25	25	क्षितिज भाग-1 उपभोक्तावादी संस्कृति –श्याम चरण दुबे वाख (कविता)- ललद्यद कृतिका भाग-1 मेरे संग की औरतें –मृदुला गर्ग व्याकरण – अर्थालंकार- उपमा, रूपक	अलंकारों का वर्गीकरण करते हुए चार्ट बनाइये
आवधिक परीक्षा-II				
सितंबर 2025	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 केकैदियों के वातावरण के मध्य अंतरपर परिचर्चा

अक्टूबर 2025	21	21	क्षितिजभाग-1 सांवले सपनो 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
अर्धवार्षिक परीक्षा (12 सितंबर – 25 सितंबर 2025)				
नवंबर 2025	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, वाक्यभेद- अर्थ के आधार पर	वाक्य-भेदका चार्ट 'बचपन के दिन' परविचारप्रकट
दिसंबर 2025	20	20	क्षितिज भाग-1 मेघ आये - सर्वेश्वरदयाल सक्सेना (कविता) *यमराज की दिशा- चंद्रकांत देवताल* कृतिका भाग-1 रीढ़ की हड्डी –जगदीश चंद्र माथुर व्याकरण – समास	प्राकृतिक सौदर्य वर्णन प्रकृति - पुरुष सम्बध पर परिचर्चा शब्द निर्माण के अंतर्गत समास वर्गीकरण का चार्ट
	आवधिक परीक्षा-III			
जनवरी 2026	14	14	क्षितिज भाग-1 बच्चे काम पर जा रहे हैं -राजेश जोशी (कविता) कृतिका भाग-1 *माटीवाली – विद्यासागर नौटियाल*	'बाल श्रम एक अपराध है' इस विषय पर संवैधानिक नियमों का संकलन तैयार करें
फरवरी 2026	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-IV				

मार्च 2026			सम्पूर्ण पाठ्यक्रम पुनरावृति पुनरावृति विद्यार्थियों की आवश्यकतानुसार	
वार्षिक परीक्षा (16-28 मार्च 2026)				

<u>नोट :- निम्नलिखित पाठों से किसी भी प्रकार के प्रश्न नहीं पूछे जाएंगे ।</u>

क्षैतिज भाग 1	**<u>गद्य</u>** केदारनाथ अग्रवाल – चंद्र गहना से लौटती बेर चंद्रकांत देवताले – यमराज की दिशा <u>पद्य</u> चपला देवी – नाना साहब की पुत्री देवी मैना को भस्म कर दिया गया | हजारी प्रसाद द्विवेदी – एक कुत्ता और एक मैना
कृत्तिका भाग 1	विद्यासागर नौटियाल – माटीवाली शमशेर बहादुर सिंह – किस तरह आखिरकार मैं हिन्दी में आया

टिप्पणी - सीबीएसई के द्वारा किया गया संशोधन मान्य होगा

नवोदय विद्यालय समिति

कक्षा 9 हिन्दी ब

परीक्षा हेतु पाठ्यक्रम विनिर्देशन 2025-26

खंड		
क	आपठित बोध	14
ख	व्यावहारिक व्याकरण	16
ग	पाठ्यपुस्तक एवं पूरक पाठ्यपुस्तक	30
घ	रचनात्मक लेखन	20

निर्धारित समय- 3 घंटे भारांक-80

कक्षा-9 विषय हिन्दी 'ब' विषय कोड-085

	परीक्षा भार विभाजन			
	विषयवस्तु			भार
	खंड क अपठित बोध (14 अंक)			
1	अपठित गद्यांश पर बोध, चिंतन, विश्लेषण, सराहना आदि पर बहुविकल्पीय अति लघूत्तरात्मक एवं लघूत्तरात्मक प्रश्न			
	1	दो अपठित गद्यांश लगभग 200 शब्दों के एक अंकीय तीन बहु विकल्पीय प्रश्न (1 x 3 = 3) अति लघूत्तरात्मक एवं लघूत्तरात्मक प्रश्न (2 x 2 = 4)	7+7	14
		खंड ख व्यावहारिक व्याकरण (16 अंक)		
2	व्याकरण केलिए निर्धारित विषयों पर विषयवस्तु का बोध, भाषिक बिन्दु / संरचना आदि पर अति लघूत्तरात्मक प्रश्न (1 x 16= 16) कुल 21 प्रश्न पूछे जायेंगे जिनमें से केवल 16 प्रश्नों के उत्तर देने होंगे।			16
	1	शब्द और पद (2 अंक) (3 में से 2 प्रश्न)	02	
	2	अुनस्वार (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 (2 अंक) (3 में से 2 प्रश्न)	02	
	6	अर्थ की दृष्टि से वाक्य भेद (3 अंक) (4 में से 3 प्रश्न)	03	
3	खंड ग पाठ्यपुस्तक स्पर्श भाग 1 (30 अंक)			
		गद्य खंड (पाठ्यपुस्तक)		11
	1	स्पर्श भाग 1 से निर्धारित पाठों में से गद्यांश के आधार पर विषय वस्तु का ज्ञान, बोध, अभिव्यक्ति आदि पर एक अंकीय पाँच बहु विकल्पीय प्रश्न पूछे जाएंगे। (1×5=5)	5	

4	2	स्पर्श भाग 1 से निर्धारित पाठों में से गद्यांश के आधार पर विषय वस्तु का ज्ञान बोध अभिव्यक्ति आदि पर तीन प्रश्न पूछे जाएंगे (25- 30 शब्द सीमा) विकल्प सहित 4 में से 3 प्रश्न करने होंगे (2×3=6)	2+2+2	
		काव्यखंड (पाठ्यपुस्तक)		11
	3	स्पर्श भाग 1 से निर्धारित पाठों में से पदयांश के आधार पर विषय वस्तु का ज्ञान, बोध, अभिव्यक्ति आदि पर एक अंकीय पाँच बहु विकल्पीय प्रश्न पूछे जाएंगे | (1×5=5)	5	
	4	स्पर्श भाग 1 से निर्धारित पाठों में से पदयांश के आधार पर विषय वस्तु का ज्ञान, बोध, अभिव्यक्ति आदि पर तीन प्रश्न पूछे जाएंगे (25- 30 शब्द सीमा) विकल्प सहित 4 में से 3 प्रश्न करने होंगे (2×3=6)	2+2+2	
	5	पूरक पाठ्यपुस्तक (संचयन भाग 1)		8
		संचयन भाग 1 से निर्धारित पाठों पर आधारित दो प्रश्न पूछे जाएंगे (50-60 शब्द सीमा | विकल्प सहित 03 में से 02 प्रश्न करने होंगे (4×2=8)	4+4	
		खंड घ रचनात्मक लेखन (20 अंक)		20
	1	विभिन्न विषयों और संदर्भों पर विद्यार्थियों को तर्क संगत विचार प्रकट करने की क्षमता को परखने केलिए संकेत बिन्दुओं पर आधारित सम सामयिक एवं व्यावहारिक जीवन से जुड़े हुए तीन विषयों में से किसी एक विषय पर लगभग 120 शब्दों में अनुच्छेद लेखन (5×1=5)	5	
	2	अभिव्यक्ति की क्षमता पर केन्द्रित अनौपचारिक विषयों में लगभग 100 शब्दों में किसी एक विषय पर पत्र (5×1=5)	5	
	3	किसी दृश्य / घटना के चित्र पर आधारित लेखन लगभग 100 शब्दों में बिना किसी विकल्प के (5×1=5)	5	
	4	भाव एवं दृश्य संकेतों के आधार पर संवाद लेखन (लगभग 100 शब्दों में विकल्प सहित (5×1=5)	5	
कुल				80
	आंतरिक मूल्यांकन			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

पाठ्यक्रम विभाजन 2025-26 कक्षा 9 हिन्दी- ब (कोड 085)

माह	दिनों की संख्या	कालांश	पाठ का नाम	परियोजना कार्य/क्रिया कलाप	आवधिक परीक्षा /टर्म1 / पुनरावृति/ वार्षिक परीक्षा
अप्रैल / जून 2025	24	12	1 दुःख का अधिकार-यशपाल (गद्य) 2 पद - रैदास (पद्य) 3 गिल्लू - महादेवी वर्मा (संचयन) 4 अनौपचारिक पत्र लेखन व्याकरण और रचनात्मक लेखन -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 2025	26	13	1.एवरेस्ट मेरी शिखर यात्रा -बचेंद्रीपाल (गद्य) व्याकरण और रचनात्मक लेखन - 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 2025	25	13	1.तुम कब जाओगे अतिथि- शरद जोशी (गद्य), 2 रहीम के दोहे -रहीम (पद्य) 3 स्मृति - श्री राम शर्मा (संचयन) व्याकरण और रचनात्मक लेखन - चित्र वर्णन - संवाद लेखन	1 अतिथि देवों भवः सूक्ति की व्याख्या : आधुनिक परिप्रेक्ष्य में। 2 कक्षा में कोई कहानी सुनाइए या किसी घटना का वर्णन कीजिए।	आवधिक परीक्षा-2
सितम्बर 2025	17	08	1 गीत-अगीत -रामधारी सिंह दिनकर (पद्य) व्याकरण और रचनात्मक लेखन -अनौपचारिक पत्र लेखन -विराम चिह्न -शब्द और पद	1 सुलेखन प्रतियोगिता 2 कवि सम्मेलन	
अर्धवार्षिक परीक्षा (12 सितंबर – 25 सितंबर 2025)					
अक्टूबर 2025	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 2025	20	10	1 वैज्ञानिक चेतना के वाहकः चन्द्रशेखर वेंकटरमन् - धीरंजन मालवे (गद्य) 2 अग्निपथ -हरिवंश राय बच्चन (पद्य)	-लघु कथा लेखन/ कविता लेखन	

दिसम्बर 2025	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 2026	14	07	1. नए इलाके में , खुशबू रचते हैं हाथ-अरुण कमल (पद्य) 2 मेरा छोटा-सा निजी पुस्तकालय - धर्मवीर भारती	1. 4-5 देशभक्ति गीतों का संकलन करके कंठस्थ करें। 2. बाल मजदूरी से संबंधित संवैधानिक नियमों पर सामूहिक चर्चा करें।	
फरवरी 2026	24	12	-शुक्र तारे के समान - स्वामी आनंद (गद्य) आंतरिक मूल्यांकन /पोर्टफोलियो पुनरावर्तन		आवधिक परीक्षा-4
मार्च 2026			पुनरावर्तन **वार्षिक परीक्षा (16-28 मार्च 2026)**		

<u>नोट :- निम्नलिखित पाठों से किसी भी प्रकार के प्रश्न नहीं पूछे जाएंगे ।</u>

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

CLASS: IX SUBJECT: MATHEMATICS

Unit No	Name of the Chapter/unit	Periods	Marks
I	NUMBER SYSTEMS	18	10
II	ALGEBRA	46	20
III	COORDINATE GEOMETRY	07	04
IV	GEOMETRY	95	27
V	MENSURATION	23	13
VI	STATISTICS & PROBABILITY	15	06
	Total	204	80
	Internal Assessment (20Marks) **Pen Paper Test and Multiple Assessment (05 M+05 M)** **Portfolio (05 Marks)** **Lab Practical (Lab Activities to be done from the prescribed books (05 Marks)**		20
	Grand Total		100

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 / PWT / Assignment
APRIL / JUNE - 2025	24	18 06	10 13	**UNIT – I: NUMBER SYSTEMS** **REAL NUMBERS** Review of representation of natural numbers, integers, and rational numbers on the number line. Rational numbersasrecurring/terminatingdecimals. Operations on real numbers. Examples of non-recurring / non-terminating decimals. Existence of non- rational numbers (irrational numbers) such as √2, √3 and their representation on the number line. Explaining that every real number is represented bya uniquepoint on the number line and conversely, viz. everypointonthenumberline representsauniquereal number. Definition of n^{th} root of a real number. Rationalization (with precise meaning) of real numbers of the type $\frac{1}{a+b\sqrt{x}}$ and $\frac{1}{\sqrt{x}+\sqrt{y}}$ (and their combinations) where x and y are natural number and a and b are integers. Recall of laws of exponents withintegral powers. Rationalexponents with positive realbases (to be done by particularcases, allowing learner to arrive at the general laws.) **UNIT–V:MENSURATION** **AREAS(Heron'sFormula)** Area of a triangle using Heron's formula (without proof)	**Activity-1** To construct a square root spiral. **Activity-2** Torepresentsome irrational numbers on the number line.	**PERIODIC WRITTEN TEST I**

JULY 2025	27	11 07 12	20 04 27	**UNIT–II:ALGEBRA** **LINEAR EQUATIONS IN TWO VARIABLES** 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 equationin 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. **UNIT – III: COORDINATE GEOMETRY** **COORDINATE GEOMETRY** The Cartesian plane coordinates of a point, names and terms associated with the coordinate plane, notations. **UNIT – IV: GEOMETRY** **LINESANDANGLES** 1) (Motivate) If a ray stands on a line, then the sum of the two adjacent angles so formed is 180 degrees 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.	**Activity-3** To find the values of abscissa and ordinates of various points given in a Cartesian plane. **Activity-4** To verify Experimentally that if two lines intersect, then • The vertically opposite angles are equal. • the sum of two adjacent angles is 180^0. • The sum of all the four angles is 360^0	

AUGUST 2025	24	22	27	**UNIT – IV: GEOMETRY** **TRIANGLES** 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). 2) (Prove) Two triangles are congruent if any two angles andtheincludedsideofonetriangleisequal toanytwo angles and the included side of the other triangle (ASA Congruence). 3) (Motivate) Two triangles are congruent ifthe three sides of one triangle areequalto three sidesof the othertriangle (SSSCongruence) 4) (Motivate)Tworighttrianglesarecongruentifthe hypotenuse and a side of one triangle are equal (respectively)tothe hypotenuseand asideoftheothertriangle. (RHS Congruence) 5) (Prove) The angles opposite to equal sides of a triangle are equal. **6)** (Motivate)Thesidesoppositetoequalanglesofa triangleare equal.	• . **Activity-5** To verify experimentally the different criteria for congruency of triangles usingtrianglecut-outs. **Activity-6** Toverifythatthesumofthe anglesofatriangleis180^0.	**PERIODIC WRITTEN TEST -II**
SEPTEMBER 2025	25	15	06	**UNIT – VI: STATISTICS** **STATISTICS** Bargraphs, histograms (with varying base lengths), and frequency polygons.	**Activity-7** • To draw histograms for classes of equal widths and varying widths.	
TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)						

OCTOBER 2025	25	12 14	27	**UNIT – IV: GEOMETRY** **INTRODUCTION TO EUCLID'S GEOMETRY** 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. **UNIT – IV: GEOMETRY** **QUADRILATERALS** (Prove) The diagonal divides a parallelogram into two congruenttriangles. (Motivate) In a parallelogram opposite sides are equal, and conversely. (Motivate) In a parallelogram opposite angles are equal, and conversely. (Motivate) A quadrilateral is a parallelogram if a pair of its opposite sides is parallel and equal. (Motivate) In a parallelogram, the diagonals bisect each other and conversely.		

NOVEMBER 2025	24	10 14	27 20	**UNIT – IV: GEOMETRY** **QUADRILATERALS (continued….)** (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. **UNIT – II: ALGEBRA** **POLYNOMIALS** Definition of a polynomial in one variable, with examples and counter examples. Coefficients of a polynomial, terms ofapolynomialandzeropolynomial.Degreeofa polynomial.	**Activity-8** To verify the algebraic identity: $(a+b+c)^2=$ • $a^2+b^2+c^2+2ab+2bc+2ca$	
DECEMBER 2025	26	**20**	20	**POLYNOMIAL (Continued…)** Constant, linear, quadratic and cubic polynomials. Monomials, Binomials, Trinomials. Factors and multiples. Zeros of a Polynomial. Motivate and State the Remainder Theorem with examples. Statement and proof of the Factor Theorem. Factorization of ax^2+bx+c, $a\neq0$ where a, b and c are real numbers, and of cubic polynomials using the Factor Theorem. Recall of algebraic expressions and identities.Verification of identities: $(x+y+z)^2=x^2+y^2+z^2+2xy+2yz+2zx$ $(x\pm y)^3=x^3\pm y^3\pm3xy(x\pm y)$ $x^3+y^3=(x\pm y)(x^2\pm xy+y^2)$ $x^3+y^3+z^3-3xyz=(x+y+z)(x^2+y^2+z^2-xy-yz-zx)$ and their use in factorization of polynomials	**Activity–9** To find the formula for the area of a trapezium experimentally.	**PERIODIC WRITTEN TEST -III**

JANUARY 2026	25	25	27	**CIRCLES** 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. (Motivate) The sum of either of the pair of the opposite angles of a cyclic quadrilateral is 180° and its converse.	**Activity-10** To verify that the angles in the same segment of a circle are equal	
FEBRUARY 2026	24	17	**13**	**Unit-V Mensuration** **SURFACE AREAS & VOLUMES** Surface areas and volumes of spheres (including hemispheres) and right circular cones.	**Activity-11** To find a formula for the curved surface area of a right circular cylinder, experimentally	**PERIODIC WRITTEN TEST -IV**

MARCH 2026	25			**REVISION** **TERM-II EXAMINATION** **(16 to 28 MARCH 2026)**		

Prescribed Books:

Mathematics- Text book for ClassIX, 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-Its Nature and behavior Chapters (1-4)	25	78
II	Organization in the living world Chapters(5-6)	22	59
III	Motion, Force and Work Chapters (8-12)	27	78
IV	Food:Food Production Chapters (15)	06	19
	Total	80	
	Internal assessment 1. Periodic Written Test (5M) 2. Multiple assessment (5M) 3. Portfolio (5M) 4. Subject enrichment activity (5M)	20	
	Grand Total	100	

MONTH	NO. OF DAYS	NO. OF PERIODS	MAIN TOPICS AND SUB-TOPICS TO BE COVERED	PRACTICALS/ ACTIVITIES / EXPERIMENTS TO BE HELD/ SPECIFIC ASSESMENT TOOLS (SUGGESTED)
APRIL /JUNE 2025	24	09	**Organization in Living World** 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 labeled diagrams.
		09	**Matter its Nature and Behavior:** Definition of matter- solid, liquid and gas. Characteristics-shape, volume, density.	
		09	**Motion Force &Work**: -Idea of motion, types with examples, Distance and displacement, velocity; uniform and non-uniform motion along a straight line	
			PERIODIC WRITTEN TEST – 1	
JULY 2025	27	07	**Organization in Living World** Cell - Basic Unit of life : endoplasmic reticulum, Golgiapparatus, chloroplast, mitochondria, vacuoles	
		12	**1.Matter its Nature and Behavior:** **Matter in Our Surroundings** Change of state-melting, freezing, evaporation, Condensation, sublimation, Evaporation (cooling by evaporation).	To determine the Melting point of ice and the boiling point of water
		12	**Motion Force &Work:** Acceleration, distance-time and velocity-time graphs for uniform motion and uniformly accelerated motion, elementary idea of uniform circular motion **Force and Newton'slaws:** Force and motion Newton's laws of motion	

AUGUST 2025	24	09	**Tissues, Organs, Organ System, Organism** 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	**Nature of Matter:** **Is Matter Around Us Pure** Elements, compounds and mixtures. homogeneous/ heterogeneous Mixtures :	Practical.**:** To prepare a) mixture b) compound using iron filings, sand 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. **T**o carry out the following reactions and classify them as physical and chemical changes a) reaction between iron and copper sulphate solution. b) burning of magnesium ribbon in air. c) Zinc with dil.H_2SO_4 d) Heating of $CuSO_4.5\ H_2O$ Na_2SO_4(aq) and $BaCl_2$(aq)
		09	**Motion, Force &Work:** Action and reaction forces, inertia of a body inertia and mass, momentum, force and acceleration Momentum, force and acceleration.	
			PERIODIC WRITTEN TEST – II	
SEPTEMBER 2025	25	04	Tissues, Organs, OrganSystem**,** Organism	
		08	**MatterItsNatureAndBehavior:** True, Colloids and suspension	Preparation of true, suspension and colloidal solution and distinguishing them on the basis of I.Transparency 2.filteration 3.Stability
		08	**Motion,ForceandWork:** **Gravitation**: Gravitation; universal law of gravitation, force of gravitation of the earth(gravity),	Determination of density of solid using spring balance and measuring cylinder.

TERM-I EXAMINATION - 12 to 25 SEPTEMBER 2025				
OCTOBER 2025	25	07	**Matter Its Nature And Behavior:** , Physical and Chemical changes (Excluding separating the components of a mixture)	. Performing following reactions 1. Iron with copper sulphate solution in water 2. Burningofmagnesiumribbon inair 3. Zincwith dilute sulphuricacid 4. Heating of copper sulphate crystals 5. Sodium sulphate with barium chloride in the form of their solutions in water
		07	**Gravitation**: Acceleration due to gravity; mass and weight; free fall.	
		06	Structure and functions of Animal tissues(four types of tissues in animals)	
NOVEMBER 2025	24	07	Food Production: Plant and Animal breeding	
		08	**Matter its Nature and Behavior** Atoms and Molecules, Chemical Formula of common compounds, Law of Chemical combination, Atomic and molecular masses,	Verification of the law of conservation of mass in a chemical reaction.
		09	**Motion Force & Work Floatation**: 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 2025	26	08	**Improvement in Food Resources:** Selection for Quality Improvement and Management	
		08	**Atoms and Molecules**: Valence, Chemical formulae of common compounds. **Structure of Atoms**: Electrons, protons and neutrons, valency	
		08	**Work, energy and Power:** Work done by force, energy power, kinetic energy, potential energy, law of conservation of energy (excluding commercial unit of energy)	
			PERIODIC WRITTEN TEST-III	

JANUARY-2026	**25**	**07**	**Sound:** Nature of sound and its propagation in various media speed of sound.	Verification of law of Reflection of sound
		07	**Structure of Atoms**: Atomic number, mass number,Valency	
		06	**Improvement in Food Resources:** Use of Fertilizers and manures	
FEBRUARY 2026	24	**07**	**Sound** : Range of hearing in humans; ultrasound, Reflection of sound , echo + **Revision**	Determination of speed of pulse propagated through a stretched string
		07	**Structure of Atoms**: Isotopes and isobars + **Revision**	
		06	**Improvement in Food Resources:** Protection from pests, and Diseases, Organic farming + **Revision**	
			PERIODIC WRITTEN TEST-IV	
MARCH 2026	**TERM-II EXAMINATION (16 to 28 MARCH 2026)**			

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Topics For Revision

Law of Conservation of Mass, Law of constant proportions, Daltons atomic Theory Atom, Molecule, ions, Formulae of compound between ions, Concept of Mole, MolecularMass/FormulaeunitMass-Numerical, Structure of Atom-Discovery and properties of Electrons, Protons and Neutrons, Atomic models, Distribution of Electrons .

Distribution of chapters:						
	PWT- I	**PWT-II**	**TERM-I**	**PWT-III**	**PWT-IV**	**TERM-II**
Chapter No.	**1(Part-I), 5 (Part-I) 7 (Part-I)**	**1(Part-II) 5 (Part-II) 7 (Part-II) 8 (Part-I)**	**1,2 (Part-I) 5,6 (Part-I) 7,8,9 (Part-I)**	**2 (Part-II) 3, 6 (Part-II) 9 (Part-II) 10, 12 (Part-I)**	**4,11,12 (Part-II)**	**1 To 12**
Bio	**1**	**1**	**2**	**2**	**1**	**3**
Che	**1**	**1**	**2**	**2**	**1**	**4**
Phy	**1**	**2**	**3**	**2**	**1**	**5**
TOT	***3***	***4***	***7***	***6***	***3***	***12***

NAVODAYA VIDYALAYA SAMITI

CLASS IX SUBJECT: SOCIAL SCIENCE

MONTH	WORKING DAYS	NO. OF PERIODS	TOPIC & SUB TOPICS	ACTIVITIES, PROJECTS /TOOLS	REMARKS
APRIL/JUNE 2025	24	15	1. The French Revolution:	• Compare the manifesto drafted by Olympiad Gouges with the declaration of the Rights of Man and Citizen • Discuss and compare the Declaration of Rights of Man and Citizen of France with the Fundamental Rights of India. • Debate on society of Estate (France) and varna system of Ancient India.	PERIODIC WRITTEN TEST -1
		7	2. India · Location ·Size · India and the World·India's Neighbours.	• Map activities: locating the important cities/centres of French revolution on the outline political map of France. • Draw a Bar Graph showing some of the highest mountain peaks in Himalayas with their height. • Prepare a table chart showing the extent, location, size, population of 7 largest Countries in the world1.	
		10	3. The Story of Village Palampur	• Design Poster on Electricity and the changing face of a village". • Organise a Field trip to have hands on experience in various Farming Activities of Carried out in a Village	
JULY 2025	27	10	1. What is Democracy? Why Democracy?	• 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. • Hold debate on the topic "Is it possible to have direct democracy in India"?	-
		10	2. Physical Features of India	• Prepare a Power Point presentation on "Theory of Plate Tectonics" with 3D effects. • Develop Geography Park representing Physical features of India and their importance.	
		15	3. Socialism in Europe and the Russian Revolution	• Hold debate and discussion on the relevancy and application capitalists and socialist ideas on private property in Contemporary Indian Society. • Comparative study on pros and cons of Collective Farming (Kolkhoz) in Russia and	

				Intensive and Extensive farming in India. • The Mono act OR Role play on the personalities involved in the Russian revolution. • Map Activities: On the outline political map of world (For location and labelling /identification) Major countries of First World War, Central powers and Allied powers.	
		10	4. People as Resource	• Brain Teaser question the large population need not be a liability; It can be turned into a productive asset". • Present a Skit- How Doctor, Teacher, Engineer and Tailor are an asset to the Economy.	
AUGUST 2025	24	10	1. Constitutional Design	• Presentation of Autobiography of Nelson Mandela "The long walk to Freedom" in the class room. • 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.	**PERIODIC WRITTEN TEST -II**
		10	2. Drainage Systems in India	• Prepare a model on Interlinking of Rivers in India • Draw the any River System of India and label the different parts of the river.	
SEPTEMBER 2025	25	12	1. Climate	• Demonstration of instruments of elements of weather. • Skit on cycle of seasons and their influence on the life of people.	
	TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)				
OCTOBER 2025	25	15	1. Poverty as a Challenge	• Present a Skit on how "Social and economic groups more vulnerable to poverty" • Hold debate on Anti-Poverty Measures and Effective implementation.	
		8	2. Electoral Politics	• Hold Mock Polling & Counting in Class Room • Hold Mock cabinet meeting and passing G.Os in class room • Role play -Returning officer of an election	

NOVEMBER 2025	24	15	1. Nazism and the Rise of Hitler:	• 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 India? • Compare and contrast Nazi concentration camps with present day Indian Prisons. • Present a skit on the speeches of Hitler. • Map activities: On the outline political map of world (For locating and labelling / identification) major countries of Second World War. Axis powers and Allied powers.	
		5	2. Forest Society and Colonialism	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&K such as Gujjars, Ghaddis, Bakarawals. • Present a skit on How Forest Laws affected lively hood of Forest. • Debate on the Baster rebellion (tribal). • Drama o how oral traditions can be used to explore tribal revolts. • Group discussion on causes of deforestation in India during British rule. • Map activities. Locate the major tribes of India on outline political map of India.	
		3	3. Natural Vegetation and Wild Life: **(**Only map pointing to be evaluated in the annual examination)	• Hold Live Demo of Medicinalplants and their uses. • Hold group discussion on thesubject human beings can learnfrom plants and animals to liveharmoniously with mutual co-operation.	
DECEMBER 2025	26	12	1. Working of Institutions	• Mock Parliament • Role play- President of India	**PERIODIC WRITTEN TEST - III**
		10	2. Pastoralists in the Modern World **(**To be assessed as part of Periodic Assessment Only)	• Collect the information regarding the "A Camel Fair at Pushkar" and prepare the album. • Undertake project on the topic pastoralists of Himalayas are at the cross roads. • Present a skit/drama / an Article on the lifestyle of Raikas and Gollas (any pastoral communities) Highlight the significance of pastoral culture in India. • Map activities. Locating the major Nomads (Pastoral community) of India on the outline map of India.	

JANUARY 2026	25	8	1. Population	• Skit-Benefits of Small Family • Skit- "Protect Gird Child" • Draw the Population density- Maps of your city town. 1.Of the women in India are given 50% • reservation in the legislatives what will be its impact on the nation	
		15	2. Food Security in India	• Hold debate on Contribution of public distribution system in ensuring food security to the poor people of India..	
FEBRUARY 2026	24	10	**1.** Democratic Rights	• Write news article to spread the awareness of human rights and struggles for human dignity. • Collect news clipping related to human/citizen rights.	**PERIODIC WRITTEN TEST -IV**
MARCH 2026			REVISION **TERM II EXAMINATION (16 to 28 MARCH 2026)**		

NAVODAYA VIDYALAYA SAMITI

CLASS: IX SUBJECT: COMPUTER (BASICS & FOUNDATION)

DISTRIBUTION OF MARKS				
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	-	-
	Total	**100**	**50**	**70**

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/ JUNE 2025	24	10T+5P	20	**Unit 1: Basics of Information Technology** • Computer Systems: characteristics of a computer, components of a computer system – CPU, memory, storage devices and I/O devices • Memory: primary (RAM and ROM) and secondary memory • Storage devices: hard disk, CD ROM, DVD, pen/flash drive, memory stick	Navigation of the file system using a mouse and keyboard.
		PERIODIC WRITTEN TEST -I			
JULY 2025	27	10T+5P		**Unit 1: Basics of Information Technology** **(Continued….)** • I/O devices: keyboard, mouse, monitor, printer, scanner, web camera • Types of software: system software (operating system, device drivers), application software including mobile applications • Computer networking: Type of networks: PAN, LAN, MAN, WAN, wired/wireless communication, Wi-Fi, Bluetooth, cloud computers (Private/public) • Multimedia: images, audio, video, animation	Explore computer parts available in Lab Explore and create list of software available in computer lab.

AUGUST 2025	**24**	**10T+05P**	**15**	**Unit 2: Cyber-safety** • Safely browsing the web and using social networks: identity protection, proper usage of passwords, privacy, confidentiality of information, cyber stalking, reporting cybercrimes • Malware: Viruses, adware	Identifying types of networks and connecting to internet Browser settings for a secure connection
		PERIODIC WRITTEN TEST -II			
SEPTEMBER 2025	**25**	**05T+10P**	**15**	**Unit 3: Office tools** • Introduction to a word processor: create and save a document. • 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.	Word processing: create a text document Create a text document in an Indian language other than English
TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)					
OCTOBER 2025	**25**	**05T+10P**	**continued**	**Unit 3: Office tools** (contiuned……..) • 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. • Use auto-format, track changes, review comments, use of drawing tools, shapes and mathematical symbols.	• Check spelling and grammar and apply the changes to the document. • Demonstrate to use Synonyms and • Thesaurus. • Create a letter • Create a report • Create a greeting card. • Create a poster
NOVEMBER 2025	**24**	**05T+10P**	**continued**	**Unit 3: Office tools** (Contiuned……..) • 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. • Edit and format a slide: add titles, subtitles, text, background, and watermark, headers and footers, and slide numbers.	• Create a presentation. • Create a presentation with animation.

DECEMBER 2025	**26**	**05T+10P**	**continued**	**Unit 3: Office tools** (contiuned……..) • Insert pictures from files, create animations, add sound effects, and rehearse timings. • Spreadsheets: concept of a worksheet and a workbook, create and save a worksheet. • 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.	• Include existing images/ pictures in a presentation. • Animate pictures and text with sound effects in a presentation
		PERIODIC WRITTEN TEST -III			
JANUARY 2026	**25**	**10P**	**continued**	**Unit 3: Office tools** (contiuned……..) • 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.	Create different types of charts using a spreadsheet: line, bar, area and pie.
FEBRUARY 2026	24	**10P**		**Lab Exercises** • Browser settings for a secure connection • Working with the operating system: Navigation of the file system using a mouse and keyboard. • Word processing: create a text document; create a letter, report, and greeting card. • Create a text document with figures in it. It should describe a concept taught in another course. • Discuss the following in a text document about the basic organisation of a computer: CPU, memory, input/output devices, hard disk. • Create a text document in an Indian language other than English. • Create a presentation. • Create a presentation with animation. • Include existing images/ pictures in a presentation. • Animate pictures and text with sound effects in a presentation • Create a simple spreadsheet and perform the following operations: min, max, sum, and average. • Create different types of charts using a spreadsheet: line, bar, area and pie.	
			PERIODIC WRITTEN TEST -IV		
MARCH 2026			**REVISION** **TERM-II EXAMINATION (16 to 28 MARCH 2026)**		

Breakup of marks for the Practicals:

S.No.	Unit Name	Marks
1.	Lab Test **(30 marks)**	
	Word processing	10
	Handling spreadsheets	10
	Creating presentations	10
2.	Report File + viva **(10 marks)**	
	Report file: • 4 documents each with a word processor, spreadsheet, and presentation tool	8
	Viva voce (based on the report file)	2
3.	Project (that uses most of the concepts that have been learnt) **(10 marks)**	
	Total Marks	**50**

NAVODAYA VIDYALAYA SAMITI

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 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 joyful

MONTH	NO.OF DAYS	NO' OF PERIODS	Physical Education		Physical Education Theory	Projects/ Sports Integrated Pedagogy Activities Prescribed
			Morning(45Minutes)	Evening (90 Minutes)	Topics And Sub-Topics	
APRIL/ JUNE 2025	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. Physical Fitness Assessment test as per Khelo India Norms. Phase- I	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
JULY 2025	27	04	Jogging & Plymetric exercise: Training to develop strength .Asanas of lying position:Uthanapadhasana,Ardhahalasana,Ardhashalbhasana,Bhujangasana,Dhanurasana.	Selection of students for appropriate sports and games based on the battery test analyses. Handball, Volley ball, 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
	ASSESSMENT OF COMPONENTS OF FITNESS					
AUGUST 2025	24	04	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.

SEPTEMBER 2025	**25**	**03**	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 Bat on 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.
	TERM–I EXAMINATION (12 to 25 SEPTEMBER 2025)					
OCTOBER 2025	**25**	**04**	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
NOVEMBER 2025	**24**	**03**	Jogging and warming-up. Proprioceptive training exercises to develop neuromuscular coordination.	Development of games like martial arts	SEWA. Adventurous Sports (Any 5)	Stretching exercises
DECEMBER 2025	**26**	**04**	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. Rules, Regulations and Techniques of Swimming.	Postural De-formities and its corrective exercise: Kyphosis, Lordosis and Scoliosis. Knock-knee,Bow leg and flat Foot
JAN UARY 2026	**25**	**02**	Jogging and warming up. Cross fit training for comprehensive development. Suryanamaskar	Practice of March Past and Mass Drills. Physical Fitness Assessment test as per Khelo India Norms. Phase - II.	Benefits of Physical training. Indigenous Games (Any Five Locally Important)	Make a project on different types of training

FEBRUARY 2026	**24**	**03**	Jogging and warming up. Cross fit 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 run100 meters and jump for 5 minutes.
MARCH 2026	**TERM - II EXAMINATION (16 to 28 MARCH 2026)**					

NAVODAYA VIDYALAYA SAMITI

CLASS: IX **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
APRIL/JUNE 2025	24	4	**Contemporary Indian Art** Contemporary trends in Painting, sculpture, drawing, digital art, video art, installation art, land art etc.	Wood, stone, Plastic other available materialsinthe Vidyalaya	Installation projects may have done. It can be integrate with Maths, Science subjects.	Based onthe activity it may be a project/ art Installation etc.
JULY 2025	27	4	**Video Film making** Preparation of script for making Video on **CLEAN AND GREEN** Videography/ Cinematography Framing, Lighting, Zooming, Focus,White balance, Audio,B-roll.	Video Camera/Smart Phone,Tripod	Projects may integrate with Social Studies, History, and Language.	
AUGUST 2025	**25**	**4**	**Video Editing /Film Making (making video on CLEAN AND GREEN** Learn the Software, Logging, First Assembly, Rough Cut, Fine Cut, Final Cut	Computer with video & audio editing software (Movie maker, audacity)/ Smart Phone	Projectsmay integrate with Social Studies and Language preferably integrate with other Subject	Group work can be assigned. Students can prepare Script, do shooting, editing etc.
SEPTEMBER 2025	25	4	**Landscape design (Landscape architecture), Gardening** Planning, designingand managing of open spaces in the Vidyalaya. 1. Unity and Balance 2. Lines and Paths 3. Focal Points 4. Transitions Power point presentation may be prepared.	Stone, Cement, Wood, Waste Plastics and other materials available in the campus.	Group activity of Campus beautification Projects may have done.The project may integrate with Mathematics, Science, Social Studies and Language Subject. Can be collaborate with the pairing State.	
TERM–I EXAMINATION (12 to 25 SEPTEMBER 2025)						

OCTOBER 2025	25	4	**Still Life Painting-** Study from the paintings ofmasters like Pieter Claesz, Caravaggio, Paul Cezanne, Vincent van Gogh etc. 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 2025	24	4	**Architecture** History Indian Architecture Indus Valley civilization Hindu Temple Architecture Ajanta, Ellora, Elephanta IndoIslamic Architecture Architecture of the EBSB pairing State. Learn the software Google Sketch up	Pencil/ Google Sketch upsoftware	Group projects may be given. It can be integrate with Mathematics, Science, Social Studies and Language Subjects.	
DECEMBER 2025	26	4	**Traditional Art of own State and EBSBpairingState**History Tradition, Design, Drawing, Colour scheme, Materials used etc.	Pencil/Watercolor/ Poster Colour	One work 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 2026	25	4	**FolkArts /Festivals of India** Study the local folk Art of the region.(EBSB pairing states art forms can be selected guidelines are given in (EkbharathSrestbharat) Various festivals i.e. Bihu, Pongal, Uttrayan, Makar Sankranti and others.These festivals have their own ways of traditional learning opportunities.	Various organic mediums, crafts, and techniques used for creating traditional arts and local crafts. Local materials wood blocks, threads, jute bags, soft stone, pop can be used	Projects may integrate with EBSB pairing states art forms can be selected guidelines are given in (Ek bharath Srest bharat) Indigenous Toys, Story telling & Illustrating subject story, poems etc. activity can be framed based on Art Integrated Pedagogy	One best art work can be Submit along with Art Portfolio based on Pared state Folk/ Traditional art and various Art achievements of the Individual with documentary evident. An A3 Size; Grawing book can be used for the Same

FEBRUARY 2026	24		**Layout Design (Preparation of Portfolio)** Learn the software, Lines, Shapes, Colours **Applied Art: Vector Graphic Editing & Designing** 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.	Preparationof Portfolio. Projects may integrate with Social Science, and Language Subjects.	
MARCH 2026			**TERM-II EXAMINATION (16 to 28 MARCH 2026)**			

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: IX SUBJECT: MUSIC

- Students learn about primary concepts of Music and also learn to correlate it with science and other subjects.
- Students learn Songs indifferent 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 switha broader vision.

MONTH	NO. OF DAYS	NO. OF PERIODS	Main-Topics and Sub- Topics to be Covered	Projects/ Art (Performing) Integrated Pedagogy-Activities Prescribed	Assessment Tool(s)/ Practical Activities Prescribed (Vocal/ Instrumental)	REMARKS
APRIL/JUNE 2025	24	04	1. Thaat and types of swara's 2. Community song Telugu	SUGGESTEDACTIVITIES • Word by word recitation of the song by teacher followed by students • Discussion meaning of the song. • Recitation of tune by teacher followed by students. **(Interdisciplinary Approach)** • Language & Literature: • Students get exposed to another language and literature. Social Science Students get exposed to the art & Culture of Andhra and Telangana.	Vocal Performance / Instrumental Performance (Perfection of pitch, tempo and in proper rhythm). Project Work – A. 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 concerned state	2 periods for thats and 2 peroids for community song
JULY 2025	27	02	3. Theory: Musical Instruments and Classificati on- string, wind, Percussion and Metal.	• Discussion about the classification of Musical instruments. **(Interdisciplinary Approach)** X) Physics Students are exposed to the scientific area of the sound production on different music Instruments and its tonal variations, pitch, timbre etc. Xl) History Students explore the historical reference of musical instruments and will be able to understand the origin and evolution of the same.	• Question–Answer • Project work – prepare a presentation of musical instruments as per their category. Students are asked to identify some musical instruments by playing audio files.	02 peroids for musical instruments and 02 peroids for introduction of orchestration required

		02	4. Introduction to orchestration of a song.	• Discussion about the construction of light songs • Discussion on the use of musical instruments in the orchestration • Discussion about the aesthetic value of a musical composition. **(Interdisciplinary Approach)** Science:	xvii) By using digital resources on internet. xviii) Project Work – Students are asked to identify the musical instruments which use din songs xix) Students are asked to create an orchestration for simple songs with available resources in the Vidyalaya.	
				• Students get exposed to the area of sound and emotion • Students are exposed to the world of latest musical trends and digital music production.		
AUGUST 2025	**24**	**04**	5. Introduction to the Raga system of Carnatic Music OR Hindustani music	• Discussion about raga system Melakartha Ragas/ Equivalent Hindustani system **(Interdisciplinary Approach)** • Language & Literature: Students learn about the ancient reference about raga and rasa. • Art & Culture: Students get exposed to the rich cultural and systematicApproach of the ancestors towards theDevelopment to fart.	With the use of digital Resources Student sareAsked to prepare a list of Popular ragas	
AUG/SEPTEMBER 2025	25	**01**	6. Patriotic song in Hindi	• Word to word recitation of the song by teacher followed by students. • Recitation of the song by teacher followed by students (Interdisciplinary Approach) • Prepare a chart / ppt depicting geographical diversity of India • Prepare a chart of arousal of different Civilizations	Vocal Performance / Instrumental Performance (Perfection of pitch, tempo and in proper rhythm).	
			6.Theory: Brief Introduction to the Classical Music systems of India	Brief discussion about the classical music System in India Discussion about differences in the singing Style and use of musical instruments in the systems. (Interdisciplinary Approach) Social: Students get exposed to the History of Indian music, culture and its Development through the influence of Foreign powers.	xvii) Question–Answer about the systems of music in India xviii) Preparation of a chart of major significance of these systems. xix) Preparation of chart on Great musicians of the systems	

		TERM - I EXAMINATION (12 to 25 SEPTEMBER 2025)				
OCTOBER 2025	**25**	**02**	7. Community Song in Regional Language.	• Discussion about lyrics and its meaning. • Word by word recitation by teacher followed by student. • Recitation of tune by teacher followed by students (Interdisciplinary Approach) • Civics: • Students are exposed to the values of unity in diversity. • Students are given an idea about values of Secularism in our Constitution.	13.Vocal/ Instrumental performance 14. Question–Answer about Values of Secularismas contemplated in constitution of India.	
		01	8.Theory: Comparative study of Indian and Western music	• Discussion about the systems and their demonstration using digital resources. • Discussion about the structure and style of performance. • Discussion about the development in these art forms. • Comparative study of the notation system and use of technology.	Question–Answer About the music systems • Vocal / Instrumental performance Students are asked to prepare a chart on fundamental elements of both systems	
NOVEMBER 2025	**24**	**01**	9. Life history of Thygaraja swamigal /Amir Khusru /Swati Thirunal.	9. Discuss about the life and Contributions of Thygarajaswamikal/ Amir Khusru/ Swati Thirunal **(Interdisciplinary Approach)** 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.	
DECEMBER 2025	**26**	**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 **(Interdisciplinary Approach)** • 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 11. Ability to recognize Raga from phrases of swaras during vivatest (Practical Exam)	

		01	11.Outline knowledge of Raaga Mohanam Or Bhupali	7. Discussion about structure of Raga and notes used in it. 8. A small bandish (Composition) in Raaga Listening different types of famous Bhajans and light music song to make the concept clearer.	6.Question–Answer about theoretical aspects of Raaga 7.Vocal/ Instrumental performance 8.Ability to recognize Raga from phrases of swaras	
		01	12.Outline knowledge of Raaga Hamsadwani or Darbari	4. Discussion about structure of Raaga and notes used in it. 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 Raaga 11. Vocal/ Instrumental performance Ability to recognize Raga from phrases of swaras .	
JANUARY 2026		**03**	13.Introduction of online music composing software	8. Discussion about music sequencer 9. Demonstration using free online software for the purpose.Eg: https://onlinesequencer.net/ 10. Discussion about the latest technology in the field of music. **(Interdisciplinary Approach)**ICT Students get exposed to the field where computers play vital role in making music. Students explore the capabilities of programming in computer	8. Students get a chance to personally experience the tool in computer lab or smart class. Students are asked to compose simple music loops with the help of free softwares.	
	25	**02**	14.Introduction of audio editing software	9. Demonstration of free audio editing software using online video resources. 10. Demonstration of recording & editing of sound file using free online software Eg:https://editor.audio/en/ **(Interdisciplinary Approach)** ICT: Students explore the new digital technology in recording, editing and manipulating of audio files which is useful for academic and other co - curricular activities.	16. Students are shown videos of audio recording studio session or demo videos of different audio editing softwares. 17. Students may be given a chance to do the sound editing in computer labor smart class. 18. Students maybe asked to do a presentation on digital music production platforms.	J

FEBRUARY 2026	**24**	**04**	**REVISION** **PRACTICAL EXAMS (VOCAL / INSTRUMENTAL)**	
MARCH 2026			**TERM-II EXAMINATION (16 to 28 MARCH 2026)**	

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 by using VN

SPLIT UP OF SYLLABUS

FOR

CLASS X

NAVODAYA VIDYALAYA SAMITI

CLASS: X SUBJECT: ENGLISH LANGUAGE AND LITERATURE (184)

UNIT NO.	NAME OF THE CHAPTER/ UNIT	MARKS
READING COMPREHENSION	Conceptual understanding, decoding, analysing, 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**
TOTAL		**80**
INTERNAL ASSESSMENT		**20**
GRAND TOTAL		**100**

MONTH	NO. OF DAYS	LESSON/UNIT		ACTIVITIES/ PROJECTS/ PRACTICAL EXPERIMENTS TO BE HELD/ SPECIFIC ASSESSMENTS TOOL(S) (SUGGESTED)
APRIL/ JUNE 2025	24		**FIRST FLIGHT (MAIN TEXT BOOK)**	
			CHAPTER 1: A LETTER TO GOD 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 India Post. **ROLE PLAY:** Role play based on the lesson 'A LETTER TO GOD' / A Day in Post Office **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.
			POEM 1: DUST OF SNOW by Robert Frost	
			POEM 2: FIRE AND ICE by Robert Frost	
			CHAPTER 2: NELSON MANDELA: LONG WALK TO FREEDOM by Nelson Rolihlahla Mandela	
			POEM 3: A TIGER IN THE ZOO by Leslie Norris	

				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.)
			FOOTPRINTS WITHOUT FEET (SUPPLEMENTARY READER)	
			CHAPTER 1: A TRIUMPH OF SURGERY by James Herriot	**MULTIDISCIPLINARY TEACHING STYLE:** Balanced Diet and Need for Games, Sports and Workouts (Science Teachers/ Staff Nurse/ Physical Education teachers).
			READING COMPREHENSION, WRITING & GRAMMAR	
			GRAMMAR: Tenses (Bridge Course) **WRITING:** Informal & Formal Letter Writing **READING COMPREHENSION:** Discursive & Case Based Passages with Visual Input	Subject- Verb Concord Modals Determiners
	PERIODIC WRITTEN TEST -I			
JULY 2025	27		**FOOTPRINTS WITHOUT FEET (SUPPLEMENTARY READER)**	
			CHAPTER 2: THE THIEF'S STORY by Ruskin Bond	**ROLEPLAY:** Roleplay based on the lesson 'THE THIEF'S STORY' / 'THE MIDNIGHT VISITOR'. **JUST A MINUTE (JAM) ACTIVITY:** Ausable 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. **STORY TELLING PEDAGOGY:** Present the story 'A QUESTION OF TRUST' / 'FOOTPRINTS WITHOUT FEET' before the class.
			CHAPTER 3: THE MIDNIGHT VISITOR by Robert Arthur	
			CHAPTER 4: A QUESTION OF TRUST by Victor Canning	
			CHAPTER 5: FOOTPRINTS WITHOUT FEET by H. G. Wells	
			FIRST FLIGHT (MAIN TEXT BOOK)	
			CHAPTER 3: TWO STORIES ABOUT FLYING: 1) HIS FIRST FLIGHT by Liam O' Flaherty 2) BLACK AEROPLANE by Frederick Forsyth	**PORTFOLIO ASSIGNMENT:** Collect stories about how famous personalities were motivated by their parents/ teachers/ role models. (E.g. Swami Vivekananda by Sri Ramakrishna Paramahamsa, Sachin Tendulkar by Ramakant Achrekar etc.) Editing **PORTFOLIO ASSIGNMENT:** Write about a precious thing you lost and how did you overcome that situation. **PORTFOLIO ASSIGNMENT/ COLLAGE:** The Holocaust **PORTFOLIO ASSIGNMENT:** From your
			POEM 4: HOW TO TELL WILD ANIMALS by Carolyn Wells	
			POEM 5: THE BALL POEM by John Berryman	
			CHAPTER 4: FROM THE DIARY OF ANNE FRANK by Anne Frank	

			POEM 6: AMANDA! by Robin Klein	understanding of the poem 'Chivvy (Class 7)' compare the poem with 'AMANDA!' and prepare a write up.
			READING COMPREHENSION, WRITING & GRAMMAR	
			GRAMMAR: Tenses, Reported Speech **WRITING:** Analytical Paragraph Writing **READING COMPREHENSION:** Discursive & Case Based with Visual Input	
AUGUST 2025	24		**FIRST FLIGHT (MAIN TEXT BOOK)**	
			CHAPTER 7: GLIMPSES OF INDIA 1) A BAKER FROM GOA by Lucio Rodrigues 2) COORG by Lokesh Abrol 3) TEA FROM 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. **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. **ART INTEGRATION:** Draw/ paint a beautiful natural scenery.
			POEM 7: THE TREES by Adrienne Rich	
			CHAPTER 8: MIJBIL THE OTTER by Gavin Maxwell	
			POEM 8: FOG by Carl Sandburg	
			READING COMPREHENSION, WRITING & GRAMMAR	
			GRAMMAR: Subject-Verb Concord, Reported Speech, Modals **WRITING :** Letter Writing (Letter to the Editor, Letter for Order, Complaint Letter etc) **READING COMPREHENSION:** Discursive & Case Based with Visual Input	CCT based practice Transformation of sentences
			PERIODIC WRITTEN TEST- II	
SEP TEMBER 2025	25		**FOOTPRINTS WITHOUT FEET (SUPPLEMENTARY READER)**	
			CHAPTER 6: THE MAKING OF A SCIENTIST by Robert W. Peterson	**INSPIRE MANAK:** Prepare a report for presenting ideas/innovations for INSPIRE MANAK 2025-26. **ROLEPLAY:** Role play based on the lesson 'THE NECKLACE'.
			CHAPTER 7: THE NECKLACE by Guy de Maupassant	
			READING COMPREHENSION, WRITING & GRAMMAR	
			GRAMMAR: Finites & Non-	

			Finites, Reported Speech, Error Correction **WRITING:** Article Writing **READING COMPREHENSION:** Discursive & Case Based with Visual Input	
TERM I EXAMINATIONS (12 to 25 SEPTEMBER 2025)				
OCTOBER 2025	25		**FIRST FLIGHT (MAIN TEXT BOOK)**	
			CHAPTER 9: MADAM RIDES THE BUS by Vallikkannan	**A BUS/TRAIN RIDE:** Write the experience/feelings about BUS/TRAIN RIDE you experienced recently. **ART INTEGRATION:** Make a comic book on the ballad 'THE TALE OF CUSTARD THE DRAGON'. **STORY TELLING PEDAGOGY:** Present the story 'THE SERMON AT BANARES' before the class. **JAM (JUST A MINUTE) SPEECH:** Speech on the topic 'Beauty is only skin deep' or 'Don't Judge a book by its cover' **ROLEPLAY:** Role- play based on the lesson 'THE PROPOSAL'.
			POEM 9: THE TALE OF CUSTARD THE DRAGON by Ogden Nash	
			CHAPTER 10: THE SERMON AT BANARES	
			POEM 10: FOR ANNE GREGORY by William Butler Yeats	
			CHAPTER 11: THE PROPOSAL by Anton Chekov	
			READING COMPREHENSION, WRITING & GRAMMAR	
			GRAMMAR: Quantifiers, Reported Speech, Error Correction, Clauses. **WRITING:** Article Writing **READING COMPREHENSION:** Discursive & Case Based with Visual Input	
NOVEMBER 2025	24		**FOOTPRINTS WITHOUT FEET (SUPPLEMENTARY READER)**	
			CHAPTER 9: BHOLI by K.A. Abbas	**POWER POINT PRESENTATION:** Problems face by women in India and measures for Women Empowerment. **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? **ROLEPLAY:** Role play based on the lesson
			CHAPTER 10: THE BOOK THAT SAVED THE EARTH by Claire Boiko	

				'THE BOOK THAT SAVED THE EARTH'. **ART INTEGRATION:** Make a comic book on the play 'THE BOOK THAT SAVED THE EARTH'. **ART INTEGRATION:** Drawing/ Painting / Clay modelling - of the alien/ alien invasion based on the chapter 'THE BOOK THAT SAVED THE EARTH'.
			READING COMPREHENSION, WRITING & GRAMMAR	
			GRAMMAR: Active Voice & Passive Voice, Conditional Clauses, Edition/ Error Correction **WRITING:** Article Writing & Speech Writing **READING COMPREHENSION:** Discursive & Case Based with Visual Input	
			PRE-BOARD I (19 to 29 NOVEMBER 2025)	
DECEMBER 2025			**PRE-BOARD II**	
JANUARY / FEBRUARY 2026			**ASSESSMENT OF LISTENING & SPEAKING (ALS), REVISION OF LESSONS, REMEDIAL TEACHING, STRATEGIES FOR IMPROVEMENT OF CLASS AVERAGE.**	
FEBRUARY / MARCH 2026			**CBSE EXAMINATION**	

FOOT NOTE:

List of Deleted Content:

(1) The Hundred Dresses-I (2) The Hundred Dresses –II (3) Animals

1. Relevant unit from workbook may be taken up.
2. Internal Assessment as per CBSE guidelines.
3. Any changes in the syllabus, if announced by CBSE during the academic year 2025-26 has to be incorporated in the split-up syllabus by the concerned Teacher and Principal accordingly.
4. Lesson plans must be Inclusive, Experiential and Competency Based as per NCFSE 2023, NEP 2020, CBSE Guidelines and NVS norms incorporating the 21st century skills, structured on the basis of Universal Design for Learning (UDL).
5. Refer CBSE Teacher's Manual for Pre-reading and Post-reading activities.
6. Conduct ASL activities based on the activities mentioned and maintain record of it for Internal Assessment.

नवोदय विद्यालय समिति

कक्षा-10 **विषय-हिंदी - अ**

*सम्पूर्ण प्रश्न पत्र दो खंडों 'अ' और 'ब' में विभाजित होगा |

*खंड 'अ' में 49 वस्तुपरक प्रश्न पूछे जाएंगे,जिनमे से 40 प्रश्न करने अनिवार्य हैं |

*खंड 'ब' में वर्णनात्मक प्रश्न पूछे जाएंगे |

*प्रश्नों में उचित आंतरिक विकल्प दिए जाएंगे|

कक्षा-10 **विषय-हिंदी 'अ '** विषयकोड- 002

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	14
		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	
		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		20
		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)	6	
	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 50-60 शब्द (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 मे एक अनुच्छेद (3 में से कोई 1)	6	20
	ख	अभिव्यक्ति की क्षमता पर केन्द्रित औपचारिक एवं अनौपचारिक विषय पर लगभग 100 शब्दों मे पत्र (विकल्प सहित) (5×1-5)	5	
	ग	उपलब्ध रिक्ति के लिए लगभग 80 शब्दों में स्ववृत लेखन अथवा विविध विषयों पर आधारित लगभग 100 शब्दों में औपचारिक ई-मेल लेखन।	5	
	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

नवोदय विद्यालय समिति

कक्षा-10 **विषय-हिंदी 'अ**

माह	कार्य दिवस	कालांश	विषयवस्तु / पाठ का नाम	परियोजना कार्य
अप्रैल/ जून 2025	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
आवधिक परीक्षा-I				
जुलाई 2025	27	27	क्षितिज भाग-2 बालगोबिन भगत- रामवृक्षबेनीपुरी (संस्मरण) लखनवी अंदाज- यशपाल (व्यंग्य) * मानवीय करुणा की दिव्य चमक -सर्वेश्वर दयाल सक्सेना * राम- लक्ष्मण -परशुराम संवाद- तुलसीदास (काव्य) व्याकरण- अपठित काव्यांश औपचारिक व अनौपचारिक पत्र लेखन	
अगस्त 2025	24	24	क्षितिज भाग-2 * सवैया और कवित्त- देव * आत्मकथ्य- जयशंकर प्रसाद (काव्य) उत्साह, अट नहीं रही है-सूर्यकान्त त्रिपाठी निराला (काव्य) व्याकरण- वाच्य	तुलसीदास की चौपाइयों का संग्रह एवं जीवन परिचय वाच्य- भेद का वर्गीकरण चार्ट
आवधिक परीक्षा-II				
सितंबर 2025	25	25	क्षितिज भाग-2 यह दंतुरित मुस्कान- फसल नागार्जुन (काव्य) *छाया मत छूना मन -गिरिजा कुमार माथुर * कृतिका भाग-2 *जॉर्जपंचम की नाक-कमलेश्वर* स्ववृत लेखन औपचारिक ई-मेल लेखन	फसलों का वार्षिक विभाजन व उनकी उत्पादन प्रक्रिया का वर्णन
			प्रथम सत्रांत परीक्षा (12 सितंबर – 25 सितंबर 2025)	

अक्टूबर 2025	25	25	क्षितिज भाग-2 एक कहानी यह भी-मन्नूभण्डारी (आत्मकथा) * स्त्री शिक्षा के विरोधी कुतर्कों का खण्डन- महावीर प्रसाद द्विवेदी * नौबत खाने में इबादत-यतीन्द्र मिश्र 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 2025	24	24	क्षितिज भाग-2 संस्कृति- भदन्त आनन्द कौसल्यायन (निबन्ध) मैं क्यों लिखता हूँ- अज्ञेय (आत्मकथा) *एहीं ठैयां झुलनी हेरानी हो रामा-शिवप्रसाद मिश्र रुद्र *(कृतिका) अलंकार शब्दालंकार (श्लेष), अर्थालंकार (उत्प्रेक्षा, अतिशयोक्ति, मानवीकरण) संगतकार- मंगलेशडबराल (काव्य) प्री-बोर्ड- I **(19-29 नवंबर 2025)**	अपने वर्तमान व अतीत की घटनाओं को जोड़ते हुए भविष्य निर्मित लक्ष्यों पर परिचर्चा
दिसंबर 2025			**पुनरावृति** **प्री-बोर्ड- II**	
जनवरी 2026			पुनरावृति	
फरवरी 2026			सम्पूर्ण पाठ्यक्रम पुनरावृत्ति	
मार्च 2026			पुनरावृति **वार्षिक-परीक्षा**	

निर्धारित पाठ्यपुस्तकें:- एनसीईआरटी द्वारा प्रकाशित

- क्षितिज भाग-2
- कृतिका भाग-2

टिप्पणी –'केन्द्रीय माध्यमिक शिक्षा बोर्ड' के द्वारा किया गया संशोधन मान्य होगा |

नवोदय विद्यालय समिति

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

कक्षा-X **विषय हिन्दी 'ब'** **विषय कोड-085**

निर्धारित समय- 3 घंटे **भारांक-80**

परीक्षा भार विभाजन			
	विषयवस्तु		**भार**
	खंड अ (वस्तुपरक प्रश्न)		**40**
1	**अपठित गद्यांश**		10
	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	**व्यावहारिक व्याकरण के आधार पर बहुविकल्पात्मक प्रश्न (1 अंक×16 प्रश्न)** **कुल 21 प्रश्न पूछे जायेंगे जिनमें से केवल 16 प्रश्नों के उत्तर देने होंगे।**		16
	1	पदबंध (5 में से 4 प्रश्न)	4
	2	रचना के आधार पर वाक्य रूपांतरण (5 में से 4 प्रश्न)	4
	3	समास (5 में से 4 प्रश्न)	4
	4	मुहावरे (6 में से 4 प्रश्न)	4
3	**पाठ्य पुस्तक स्पर्श भाग 2**		14
	काव्य खंड		7
	पठित पद्यांश पर एक अंकीय पाँच बहुविकल्पी प्रश्न (1×5=5) स्पर्श भाग 2 से निर्धारित कविताओं के आधार पर एक अंकीय दो बहुविकल्पी प्रश्न पूछे जाएँगे। (1×2=2)		5 2
	गद्य खंड		**7**

	पठित गद्यांश पर एक अंकीय पाँच बहुविकल्पी प्रश्न। (1×5=5) स्पर्श भाग 2 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)		5 2
	खंड ब (वर्णनात्मक प्रश्न)		**40**
4	**पाठ्यपुस्तक स्पर्श भाग 2**		**12**
	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
	पूरक पाठ्य पुस्तक संचयन भाग 2		**06**
	पूरक पाठ्यपुस्तक संचयन के निर्धारित पाठों से तीन में से दो प्रश्न पूछे जाएँगे जिनका उत्तर लगभग 60 शब्दों में देना होगा। (3 अंक× 2 प्रश्न)		06
5	**लेखन**		**22**
	1	संकेत बिंदुओं पर आधारित समसामयिक एवं व्यवहारिक जीवन से जुड़े किन्हीं तीन विषयों में से एक विषय पर लगभग 100 शब्दों में अनुच्छेद लेखन। (5 अंक× 1 प्रश्न)(विकल्प सहित)	05
	2	अभिव्यक्ति की क्षमता पर केंद्रित औपचारिक विषयों में से किसी एक विषय पर लगभग 100 शब्दों में पत्र। (5 अंक× 1 प्रश्न)	05
	3	व्यावहारिक जीवन से संबंधित विषयों पर आधारित लगभग 80 शब्दों में सूचना लेखन। (4 अंक× 1 प्रश्न)(विकल्प सहित)	04
	4	विषय से संबंधित लगभग 60 शब्दों के अंतर्गत विज्ञापन लेखन। (3 अंक× 1 प्रश्न)(विकल्प सहित)	03
	5	दिए गए विषय/शीर्षक आदि के आधार पर रचनात्मक सोच के साथ लगभग 100 शब्दों में लघुकथा लेखन। (5 अंक× 1 प्रश्न) अथवा विविध विषयों पर आधारित लगभग 100 शब्दों में औपचारिक ई-मेल लेखन	05
कुल			**80**
		आंतरिक मूल्यांकन **अंक**	**20**

	अ	**सामयिक आकलन**	**5**	
	ब	**बहुविध आकलन**	**5**	
	स	**पोर्टफोलियो**	**5**	
	द	**श्रवण एवं वाचन**	**5**	
		कुल		**100**

माह	दिनों की संख्या	कालांश	पाठ का नाम	परियोजना कार्य/क्रिया कलाप	आवधिक परीक्षा/ टर्म
अप्रैल / जून 2025	24	24	**स्पर्श -2** गद्य खंड - बड़े भाई साहब-प्रेमचंद, -डायरी का एक पन्ना - सीताराम सेकसरिया पद्य खंड - साखी - कबीर दास **संचयन** - 2 हरिहर काका - मिथलेश्वर	1. मध्यकालीन कवियों की कविताओं का संग्रह करें । 2. प्रेमचंद की अन्य पाँच कहानियों का संग्रह करें एवं पढ़ें।	
			आवधिक परीक्षा-I		
जुलाई 2025	27	26	**स्पर्श -2** गद्य खंड - तंतारा वामीरों कथा-लीलाधर मंडलोई -तीसरी कसम के शिल्पकार : शैलेन्द्र - प्रहलाद अग्रवाल पद्य खंड - पद -मीरा बाई पद्य खंड - मनुष्यता - मैथलीशरण गुप्त **व्याकरण और रचनात्मक लेखन** - रचना के आधार पर वाक्य रुपान्तरण -समास -अनुच्छेद लेखन	1. मीरा बाई के पदों की तरह अन्य कवियों के पदों का संग्रह करें । 2. समास के भेदों का चार्ट बनाइए।	
अगस्त 2025	24	24	**स्पर्श -2** पर्वत प्रदेश में पावस- सुमित्रानंदन पंत गद्य खंड - अब कहाँ दूसरों के दुख से दुखी होने वाले - निदा फाज़ली **गद्य खंड** – पतझड़ में टूटी पत्तियाँ -रवीन्द्र केलकर **व्याकरण और रचनात्मक लेखन** -मुहावरे, अपठित गद्यांश, पद बंध	1. प्रकृति चित्रण संबंधी पाँच कविताओं का संग्रह करें। 2. वसु चटर्जी के निर्देशन में बनाई गई फ़िल्म तीसरी कसम देखिए।	
			आवधिक परीक्षा-II		
सितम्बर 2025	25	25	**स्पर्श -2** अ.गिन्नी का सोना ब. झेन की देन **पद्य खंड -** तोप - विरेन डंगवाल **संचयन - 2** सपनों के से दिन - गुरु दयाल सिंह **व्याकरण और रचनात्मक लेखन** - औपचारिक पत्र लेखन - विज्ञापन लेखन	- निदा फ़ाज़ली की गज़लों का संग्रह करें।	
			सत्रांत परीक्षा-1 (12 -25 सितंबर 2025)		

अक्टूबर 2025	**21**	21	**स्पर्श -2** **पद्य खंड -** -कर चले हम फिदा -कैफ़ी आज़मी गद्य खंड - कारतूस -हबीब तनवीर पद्य खंड -आत्मत्राण - रवींद्रनाथ ठाकुर **व्याकरण और रचनात्मक लेखन** - सूचना लेखन		
नवम्बर 2025	**24**	**24**	संचयन - 2 टोपी शुक्ला - राही मासूम रज़ा **व्याकरण और रचनात्मक लेखन** -लघुकथा लेखन -औपचारिक ई-मेल लेखन		
			प्री-बोर्ड- 1 (19-29 नवम्बर 2025)		
दिसम्बर 2025			पुनरावर्तन **प्री-बोर्ड- II**		
जनवरी 2026			पुनरावर्तन -गद्य खंड और पद्य खंड -व्याकरण और रचनात्मक लेखन		
फरवरी 2026			पुनरावर्तन		
मार्च 2026			**वार्षिक परीक्षा**		

<u>नोट :- निम्नलिखित पाठों से किसी भी प्रकार के प्रश्न नहीं पूछे जाएंगे ।</u>

स्पर्श भाग 2	a) बिहारी-दोहे (पूरा पाठ) b) महादेवी वर्मा- मधुर मधुर मेरे दीपक जल (पूरा पाठ) c) अंतोन चेखव- गिरगिट (पूरा पाठ)
संचयन भाग 2	d) पुस्तक में कोई परिवर्तन नहीं। कोई भी पाठ हटाया नहीं गया है।

NAVODAYA VIDYALAYA SAMITI

CLASS: X **SUBJECT: MATHEMATICS**

(Common for both Basic and Standard)

Units	Unit Name	Marks
I	NUMBER SYSTEM	06
II	ALGEBRA	20
III	COORDINATE GEOMETRY	06
IV	GEOMETRY	15
V	TRIGONOMETRY	12
VI	MENSURATION	10
VII	STATISTICS & PROBABILTY	11
	Total	**80**
	Internal Assessment (20 Marks)	**20**
	Pen Paper Test and Multiple Assessment (05 M + 05 M) **Portfolio (05 Marks)** **Lab Practical (Lab Activities to be done from the prescribed books) (05 Marks)** **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.**	
	Grand Total	**100**

MONTH	NO. OF DAYS	Weightage of Marks for the Unit/ Chapter	Units/ sub-units/ Topics/ Chapters to be covered	Details of Activity/Practical/ Projects to be given	PWT / Assignment
APRIL/ JUNE 2025	24	06 20 20	**UNIT-I- :NUMBER SYSTEM** **REAL NUMBERS** Fundamental Theorem of arithmetic-statements after reviewing work done earlier and after illustrating and motivating through examples, Proofs of irrationality of $\sqrt{2}, \sqrt{3}$ $\sqrt{5}$ etc **UNIT II: ALGEBRA- POLYNOMIALS** Zeros of a polynomial. Relationship between zeros and coefficients of quadratic polynomials. **UNIT-II: ALGEBRA** **QUADRATIC EQUATIONS** 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.	**Activity**-:To construct a square root spiral **Activity:**To find the square root of 13,29,73 using graph paper **Activity:** To determine the Zeroes of linear polynomial, Quadratic polynomial and cubic polynomial graphically **Activity:** To draw and observe the shape of curve when the coefficient of x^2 is positive and negative and its number of zeroes. **Activity-:**To draw the graph of quadratic polynomial and observe the shape of the curve hence find the zeroes of the quadratic equation Activity-: To obtain the solution of quadratic equation by completing the square geometrically.	PERIODIC WRITTEN TEST I

JULY 2025	**27**	**20** **06** **15**	**<u>UNIT II: ALGEBRA</u>** **<u>PAIR OF LINEAR EQUATIONS IN TWO VARIABLES</u>** 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. **Unit III: <u>Coordinate Geometry</u>** Review: Concepts of coordinate geometry, graphs of linear equations. Distance formula. Section formula (internal division) **Unit IV: <u>Geometry-</u>** **<u>TRIANGLES</u>** Definitions, examples, counter examples of similar triangles. 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. **2)** (Motivate)If a line divides two sides of a triangle in the same ratio, the line is parallel to the third side.	**<u>Activity</u>**: To verify the conditions for Consistency/in consistency for pair of linear equations in two variable by graphical method Maintain Portfolio Multiple **Assessment:** Quiz / Puzzle / Exit cards / Oral test/Origami/PPT/ Project/ Concept mapping/mind mapping etc. **<u>Activity:</u>** To verify the distance formula by graphical method. **<u>Activity</u>**: To verify Section formula **<u>Activity:</u>** Verification of Basic proportionality theorem	
AUGUST 2025	**24**	**15**	**Unit IV: <u>Geometry-</u>** **<u>TRIANGLES (Continued…)</u>** 1) (Motivate) If in two triangles, the corresponding angles are equal, their corresponding sides are proportional and the triangles are similar. 2) (Motivate) If the corresponding sides of two triangles are proportional, their corresponding angles are equal and the two triangles are similar. 3) (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.	**<u>Activity</u>**: To find the relationship between Area and sides of similar triangles **<u>Activity:</u>** Verification of Pythagoras theorem By cut and paste activity (Bhaskara Method) **<u>Activity</u>**: To draw the system of Similar triangles using Y shaped strips with nails Hence verify Thales theorem Maintain Portfolio Multiple Assessment: Quiz / Puzzle / Exit cards / Oral test/Origami/PPT/Project/ concept mapping/mind mapping etc	**PERIODIC WRITTEN TEST -II**

AUGUST 2025	**24**	**12** **12** **10**	**INTRODUCTION TO TRIGONOMETRY** Trigonometric ratios of an acute angle of a right-angled triangle. Proof of their existence (well defined); motivate the ratios which ever are defined at0^o and 90^o.Values of the trigonometric ratios of 30^0, 45^0 and 60^0. Relationships between the ratios. **TRIGONOMETRIC IDENTITIES** Proof and applications of the identity $sin^2A + cos^2A = 1$. Only simple identities to be given. **Unit VI - Mensuration** **AREAS RELATED TO CIRCLES** 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 60°,90°and120°only..	**Activity:** To Draw the graph of trigonometric functions of Sin function of some angles:0^0,30^0,45^0,60°,90° **Activity**: To Draw the graph of trigonometric functions of Cos function for angles:0^0,30^0,45^0,60^0,90^0 **Activity**: To Draw the Graph of trigonometric functions of Tan function for angles : 0^0 ,30^0, 45^0, 60°, 90° **Activity**: To find the area of circle by using cut and paste activity(dividing the circle into16part and converting into parallelogram)	
SEPTEMBER 2025	**25**	**11**	**Unit-VII - Statistics and Probability** **STATISTICS** Mean median and mode of grouped data (Bimodal situation to be avoided).	**Activity**: To draw the cumulative frequency curve of more than type and hence find Median **Activity-**: To draw a cumulative frequency curve of less than Type less than type(ogive)	
TERM-I EXAMINATION (12 to 25 SEPTEMBER 2025)					

SEPTEMBER 2025	**25**	**20**	**UNIT-II: <u>ALGEBRA</u>** **<u>ARITHMETIC PROGRESSIONS</u>** 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.	**<u>Activity</u>-**:To identify the arithmetic progression in some given list of numbers(patterns) **<u>Activity</u>-**:To find the sum of n natural numbers **<u>Activity:</u>** To find the sum of the first n-even natural numbers. **<u>Activity:</u>** To establish a formula for the sum of first "n" terms of an Arithmetic Progression	
OCTOBER 2025	**25**	**15** **12** **11**	**Unit IV: <u>Geometry-</u>** **<u>CIRCLES</u>** 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. **<u>HEIGHTS AND DISTANCES</u>** 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°. **Unit VII-Statistics and Probability:** **<u>PROBABILITY</u>** Classical definition of probability. Simple problems on finding the probability of an event.	**<u>Activity</u>-**: To observe the lengths of two tangents drawn from an external point to a circle are equal. **<u>Activity</u>:** To draw the pair of tan gents when angle of inclination between two tangents is given **<u>Activity:</u>** To verify experimentally that the tangent at any point to a circle is perpendicular to the radius through that point. **<u>Activity</u>**: To find the angle of elevation / depression of the building / pole / tree by using clinometers **<u>Activity</u>**-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. **<u>Activity</u>-**: To find experimental probability of each outcome of a Die when it is thrown a large number of times.	

NOVEMBER 2025	**24**	**10**	**Unit VI - Mensuration** **SURFACE AREAS AND VOLUMES** Surface areas and volumes of combinations of any two of the following: cubes, cuboids, spheres, hemispheres and right circular cylinders/cones	**Activity-**:To form a cone from a sector of circle and to find the formula of a cone **Activity**: To find the surface area of right circular (LSA and TSA) cylinder experimentally (preferably glass vessel or tumbler) **Activity-**:To find the Relationship among Volumes of a Right circular Cone, a hemisphere, and a right circular cylinder of equal radii and equal Heights **Note- The teachers can refer NCERT Lab manual for conducting activities.**	
			PRE-BOARD-I (19 to 29 NOVEMBER 2025)		
DECEMBER 2025	**REVISION** **PRE BOARD–II**				
JANUARY 2026	**REVISION**				
FEBRUARY 2026	**REVISION**				
MARCH 2026	**CBSE EXAMINATIONS**				

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.

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NAVODAYA VIDYALAYA SAMITI

CLASS-X SUBJECT: SCIENCE

Unit No	Name of the Chapter/Unit	Marks
I	Chemical Substances-Nature and Behavior Chapters (1-4)	25
II	World of living Chapters (6-9)	25
III	Natural Phenomena Chapters (10-11)	12
IV	Effects of Current Chapters (12-13)	13
V	Natural Resources Chapters (15-16)	05
	TOTAL	80
	INTERNALASSESMENT 1. Periodic Written Test (5M) 2. Multiple assessment (5M) 3. Portfolio (5M) 4. Subject enrichment activity (5M)	20

MONTH	NO. OF DAYS	MAIN TOPICS AND SUB-TOPICS TO BE COVERED	PRACTICALS/ ACTIVITIES / EXPERIMENTS TO BE HELD/ SPECIFIC ASSESMENT TOOLS (SUGGESTED)
APRIL /JUNE 2025	24	**Natural Phenomena** Reflection of light by curved surfaces; Images formed by spherical mirrors, Centre of curvature, Principal axis, Principal focus, Focal length,Mirror formula(Derivationnot required),Magnification,Refraction laws 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 i)By obtaining the image of a distant object
	24	UNIT:**World of Living** Chapter: Life Processes Living Being: Basic concept of Nutrition & Respiration	ii) Preparing a temporary Mount of a leaf peel to show stomata.
	24	**Chemical Substances-Nature and Behavior** UNIT-1:**Chemical reactions &Chemical equation:** 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.	Performing and observing the following reactions and classifying them into: a) Combination reaction b) Decomposition reaction c) Displacement reaction d) Double displacement reaction- (i) Action of water on quick lime (ii) action of heat on ferrous sulphate crystals (iii) Ironnails kept in coppersulphate solution (iv) Reaction between sodium iii) Sulphate and bariumchloride solution
		PERIODIC WRITTEN TEST- I	

JULY 2025	**27**	**Natural Phenomena** 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 visionand their corrections ,Refraction of light through a prism, dispersion of light ,scattering of light, applications in daily life(excluding color of the sun at sunrise and sunset)	iv) 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, v) Tracing the path of a ray of light passing through a glass prism
	27	Transport and Excretion in Plants and Animals **Controle and co ordination , Nervous system and reflex action**	Experimentally show that carbon dioxide is given out during respiration.
	27	UNIT-2Chapter: **Acids, bases and salts** : Their definitions in terms of furnishing of H+ and OH- ions, General properties, examples and uses, neutralization, concept of pH scale(Definition relating to logarithm not required) Importance of pH in everyday life ; preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris	Studying the properties of acids and bases (HCl & NaOH) by their reaction with: a)Litmus solution (Blue/ Red)(b)Zinc metal(c)Solid sodium carbonate
AUGUST 2025	**22**	**Effects of current:** 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	**Control And Coordination in animals and plants:** Tropic Movements in Plants; Introduction of Plant Hormones; Control and Coordination in Animals ;Chemical Co-Ordination and Animal Hormones Chapter: Reproduction: Reproduction in plants(asexual and sexual)	Studying (a) binary fission in Amoeba, and (b) budding in yeast with the help of prepared slides

	24	UNIT-3 Chapter: Metals and Non-metals: Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds. Basic metallurgical processes; Corrosion and its prevention.	Finding the pH of the different samples by using pH paper / universal indicator. 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
		PERIODIC WRITTEN TEST- II	
SEPTEMBER 2025	25	**Magnetic effects of current:** 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
		Reproduction in animals (asexual and sexual) Reproductive health-need and methods of family planning; Safe Sex v/ sHIV/ AIDS; Childbearing and women's health.Unit:	
		UNIT-4: Carbon compounds: Covalent bonding in carbon compounds. Versatile nature of Carbon. Homologous series.	
		TERM-I EXAMINATION (12 to 25 SEPTEMBER 2025)	
OCTOBER 2025	25	**Effects of electric current:** Force on current carrying conductor, Flemings left hand rule	
		World of Living 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	Identification of the different parts of an embryo of a divot seed(Pea, gram or red Kidney bean)

		Unit: Natural Resources: **Our Environment** Chapter: Our Environment: Eco- System, Environmental problems,	
		UNIT-4:**Carbon Compounds:** 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 (ethanoic acid)
NOVEMBER 2025	24	**Effects of Electric Current:** Direct current, alternating current: frequency of Ac advantages of A cover Dc, domestic electric circuits	
		Unit: Natural Resources: **Our Environment**, Ozone depletion, waste production and their solutions. Biodegradable and non-biodegradable substances	
		UNIT-4: **Carbon Compounds:** 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. .
	PRE-BOARD-I (19 to 29 NOVEMBER 2025)		
DECEMBER 2025	**26**	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
	REVISION **PRE-BOARD II**		
JANUARY 2026	**REVISION**		
FEBRUARY 2026	**REVISION**		
MARCH 2026	**CBSE EXAMINATION**		

Distribution of chapters:					
	PWT-1	PWT-2	TERM-1	PB-1	PB-2
Chapter No.	1,5,9	2,10,6	1,2,3,4(Part-I), 5,6,7,8, 10,11,12(Part-I)	1 To 13	1 To 13
Bio	1	1	4	5	5
Che	1	1	4	4	4
Phy	1	1	4	4	4
TOT	3	3	12	13	13

NAVODAYA VIDYALAYA SAMITI

CLASS X SUBJECT: SOCIAL SCIENCE

MONTH	NO. OF DAYS	TOPIC & SUB TOPICS	ACTIVITIES, PROJECTS/TOOLS	REMARKS
APRIL / JUNE 2025	24	• The Rise of Nationalism in Europe	• If you were a peasant in Uttar Pradesh in 1920, how would you have responded to Gandhi's call for Swaraj? Write a paragraph on it.	PERIODIC WRITTEN TEST -I
		• Resources and Development	• Visit the field to identify the type/s of soil found in your locality. Discuss the factors responsible for the formation of that soil.	
		• Power Sharing	• Classroom discussion on challenges faced by Belgium & Sri Lanka in ensuring effective power sharing. • Socratic discussion on Power Sharing Techniques used by India, Sri Lanka and Belgium	
JULY 2025	27	• Nationalism in India	• Why did various classes and groups of Indians participate in the Civil Disobedience Movement? • Map Activity- Calcutta, Nagpur, Madras, Kheda, Champaran, Ahmedabad, Jallianwalabagh, Dandi	
		• Federalism	• Visit or Invite personalities associated with local administration and discuss the various forms of power entrusted with them and their execution	
		• Development	• Download the recent 'The World Development Report 2020' and analyse the data for further understanding of the development.	

AUGUST 2025	24	• Sectors of the Indian Economy	• Conduct a survey on workers under different sectors in your locality for better understanding of their conditions.	**PERIODIC WRITTEN TEST -II**
		• Money and Credit	• Find a SHG in your locality and talk to them to know about their members and its functioning.	
		• The Making of a Global World • (to be evaluated in the Board Examination • Subtopics: 1 to 1.3 Pre Modern World to Conquest, Disease and trade)	• Summarize the changes that transformed the world in terms of economy, political, cultural and technological areas. • Interdisciplinary project as part of multiple assessments • (internally assessed for 5 marks) Subtopics 2 to 4.4 -The nineteenth • century (1815-1914) to end of Bretton Woods & the beginning of • "Globalization"	
		• Forest and Wildlife	• List out the forest and wildlife resources in your region and classify them under various types discussed in the chapter.	
		• Water Resources	• Make a list of inter-state water disputes. • Visit and appraise a nearby centre practicing or having a structure of rain water harvesting.	
		• Agriculture	• Make a table of Agricultural Crops produced in India and present as a chart	
SEPTEMBER 2025	25	• Minerals and Energy Resources	• (Group Activity) Analyse Annual Energy Consumption in your Vidyalaya and suggest measures for conservation.	
		• Gender, Religion and Caste	• Debate on gender equality	
		• Political Parties	• Essay on Reforms of Political parties.	
	TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)			
OCTOBER 2025	25	• The Age of Industrialization • (To be assessed as part of Periodic • Assessment only	• Select any one industry in your region and find its history. How has technology changed? 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.	
		• Manufacturing Industries	• Take some branded products that we use every day. Check which of these are produced by MNCs.	

		• Globalization and the Indian Economy: • To be evaluated in the Board Examination • What is Globalization? • • Factors that have enabled Globalization	• Take some branded products that we use every day. Check which of these are produced by MNCs. • Interdisciplinary project as part of multiple assessment (Internally assessed for 5 marks) • Production across the countries • Chinese toys in India • World Trade Organization • The Struggle for a Fair Globalization	
NOVEMBER 2025	24	• Print Culture and the Modern World	• Imagine that you are Marco Polo. Write a letter from China to describe the world of print which you have seen there. • OR • You are a bookseller advertising the availability of new cheap printed books. Design a poster for your shop window	
		• Life Lines of National Economy • (Only map pointing to be evaluated in the Board Examination)	• Major sea ports- Kandla, Mumbai, Mormugao, New Mangalore, Kochi, Tuticorin, Chennai, Visakhapatnam Paradip, Haldia,	
		Outcomes of Democracy	• Interpretation of various cartoons given in the textbook under the chapter and write a commentary.	
		Consumer Rights (To be used only for Project Work)		
		PRE-BOARD-I (19 to 29 NOVEMBER 2025)		

DECEMBER 2025	**REVISION** **PRE-BOARD-II**
JANUARY 2026	**REVISION**
FEBRUARY / MARCH 2026	**CBSE BOARD EXAMINATION**

NAVODAYA VIDYALAYA SAMITI

CLASS: X SUBJECT: COMPUTER (BASICS & FOUNDATION)

Distribution of Marks and Periods Unit Wise		
Unit No.	**Unit Name**	**Marks**
1.	Networking	15
2.	HTML	25
3.	Cyber Ethics	10
4.	Practical	50
	Total	**100**

Reference Books:

- Computer Applications, A Textbook for Class X - Sumitra Arora
- A Textbook of Computer Applications, For Class X-GBP

MONTH.	NO. OF DAYS	Weightage of Marks for Unit/ Chapter	Units/ Sub-units/ Topics/ Chapters to be Covered	Details of Activity/ Practical/ Projects
APRIL/JUNE 2025	24	15	**Unit 1: Networking**: • 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. • Internet protocols: TCP/IP, SMTP, POP3, HTTP, HTTPS. Remote login and file transfer protocols: SSH, SFTP, FTP, SCP, TELNET, SMTP, TCP/IP.	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.
			PERIODIC WRITTEN TEST -I	

JULY 2025	**27**		**Unit 1: Networking**: (continued….) • Services available on the internet: information retrieval, locating sites using search engines and finding people on the net; • Web services: chat, email, video conferencing, e-Learning, e-Banking, eShopping, e-Reservation, e-Governance, e-Groups, social networking. • Mobile technologies: SMS, MMS, 3G, 4G.	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 2025	**22**	**25**	**Unit 2: HTML** • Introduction to web page designing using HTML: create and save an HTML document, access a web page using a web browser. • 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).	Use style sheets to enforce a format in an HTML page (CSS). Write a blog using HTML pages
			PERIODIC WRITTEN TEST -II	
SEPTEMBER 2025	**25**		**Unit 2: HTML**: (continued….) • Font tags (attributes: face, size, color). • Insert images: img (attributes: src, width, height, alt), sup (super script), sub (subscript). • HTML Forms: Textbox, radio buttons, checkbox, password, list, combobox. • Embed audio and video in a HTML page.	Use style sheets to enforce a format in an HTML page (CSS). Write a blog using HTML pages
			TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)	
OCTOBER 2025	**25**		**Unit 2: HTML**: (continued….) • Create a table using the tags: table, tr, th, td, rowspan, Colspan • Links: significance of linking, anchor element (attributes: href, mailto), targets. • Cascading style sheets: colour, background-colour, border-style, margin, height, width, outline, font (family, style, size), align, float.	

NOVEMBER 2025	**24**	**10**	**Unit 3: Cyber ethics** • Netiquettes. • Software licenses and the open source software movement. • Intellectual property rights, plagiarism and digital property rights. **Unit 3: Cyber ethics** • Plagiarism and digital property rights. • Freedom of information and the digital divide. • E-commerce: Privacy, fraud, secure data transmission.	Discussing viruses, malware, spam and Antiviruses Create a web page discussing plagiarism. List some reported cases of plagiarism and the consequent punishment meted out.
			PRE-BOARD-I (19 to 29 NOVEMBER 2025)	

DECEMBER 2025	**REVISION, PROJECT WORK PREPARATION PRE-BOARD-II**
JANUARY 2026	**REVISION, FINALISATION OF PROJECT**
FEBRUARY/ **MARCH 2026**	**REVISION** **CBSE EXAMINATION**

Breakup of marks for the practicals:

S. No.	Unit Name	Marks
1.	Lab Test **(20 marks)**	
	HTML (design one web page based on a diagram)	20
2.	Report File + viva **(20 marks)**	
	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) **(10 marks)**	
	Total (50 marks)	

NAVODAYA VIDYALAYA SAMITI

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 Defense 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 joyfull

MONTH	NO. OF DAY	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		
APRIL / JUNE 2025	24	Meditation, Jogging, Marching and Drill, Mass P.T., Calisthenics, Battery of tests, Surya Namaskar & Asanas of Supine position.	Physical Fitness Assessment test as per Khelo India Norms. 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.
JULY 2025	27	Jogging, Plyometric exercise training to develop explosive power. Aerobics, Pranayama and Asanas of Prone Lying Position.	Intramural Activities of Athletics and Indoor Games. Self-defense training for girls	Physical activities and quality of life, meaning and concept. Benefits of physical activities to promote quality of life. Development of ethical values through physical activities. Physiological basis of physical education. Meaning and concept of physiology. Warming up and cooling down.	Science – Biology Respiratio n Activity name: Pranayama	Children asked to perform pranayama activity and Observe the Respiration Process.
AUGUST 2025	24	General Conditioning Exercise, Light Apparatus drill training to develop speed, Yogasana of sitting posture and Kriyas.	Inter-house Competition of Combative Sports and Indoor Games	History of Games and Sports, its evolution Track and Field Events- Any Two Major Games (Basketball & Kho-Kho). Preparation of Record Book, Physical Activities and gender differences. Physical activities of women and its training.	Science – Biology Adrenaline Hormone Activity Name: Adventure activity(or) Achieve the goal	Children are asked to achieve the goal in The last critical part of the game.

SEPTEMBER 2025	**25**	General conditioning exercises, Interval training, Static stretching to develop flexibility, Suryanamaskar and asanas of standing Posture.	Improvised skills of outdoor games and throwing events, inter house competition of outdoor games.	Systems and potentials of human body. Demonstration and administration of various physical potential tests. Methods of record maintenance and preparation of record file including Anthropometric and physiological measurement.	Science – Physics Law of Reflection Activity Name: Carom Board.	Asked children to play the game of Carom and observe the Law of Reflection.
	TERM–I EXAMINATION (12 to 25 SEPTEMBER 2025)					
OCTOBER 2025	**25**	Motor ability development training, proprioceptive training, battery of tests.	Physical Fitness Assessment test as per Khelo India Norms. ,inter house competitions, pace setting activities	Psychological basis of physical education, meaning and importance. Habit- formation of good habits, breaking bad habits. Emotions: meaning, types, training for controlling emotions.	Science – Chemistry Carbon Components Activity Name: Anaerobic Exercise	Anaerobic Exercise
NOVEMBER 2025	**24**	Conditioning exercises, Continuous Training to develop endurance, Zumba,Yogasana: Artistic yoga and Pranayama,Meditation. Conditioning and general fitness exercises, training related to strength endurance, mass drill, marching band practice Pranayama and meditation.	Inter-house competition of Jumping events, Indoor Games, Rope Skipping Practice of skills and techniques of Athletic events inter house indoor activities preparation of Annual Sports	Awards and rewards sports recognition of various imminent sports personalities with photograph, yoga. Do's and don'ts and stress management through yoga Career avenues in the field of physical education. Career avenues in educational institutions, media fitness, industries, (Sports). Educational qualification of Physical Education, Leading institutes of Physical Education. Safety and injuries. Self-safety. Safety of equipment. Prevention of sports injuries.	Science – Chemistry Chemical Reaction Activity Name: Aerobics Dance Science – Chemistry Metal and Non-Metal Activity Name :Name the sports equipment	Aerobics Dance Ask children to give the name of sports equipment as a Metal and Non–Metal.
DECEMBER 2025	**REVISION**					

JANUARY 2026	**REVISION**
FEBRUARY 2026	**REVISION**
MARCH 2026	**CBSE EXAMINATION**

NAVODAYA VIDYALAYA SAMITI

CLASS: X SUBJECT: ART (VISUAL)

MONTH	NO. OF DAYS	Main topics and sub-topics to be covered	Medium/ Materials	Projects/ Art integrated Pedagogy Activities Prescribed	Assessment Tool(s)/ Practical Handson Activities Prescribed
APRIL/ JUNE 2025	24	**Portrait Study:** Students primarily practice drawing from live models. 1. Principles of drawing through Careful study of the human head. 2. Observation 3. Figure construction • Human anatomy • Composition • Proportion	Pencil/Water Colour	Students may prepare portraits of National leaders, Scientists etc.	Understanding the strength of drawing, learn about the characters.
JULY 2025	27	**Composition Indian Painting** Study of the Paintings of India like, *Rajasthani,Pahari,Miniature,etc.*(Power point presentations may be prepared by the students, comprising the photographs & artisans engaged in various art forms)	Poster Colour/Any required materials		Understanding of vast cultural heritage of Indian traditional Art forms.
AUGUST 2025	24	**CONTEMPORARY INDIAN ART** • **Cubism** • **Fauvisum** • **Surrealism** • **Callligraphy** • **Gothic period**	Pencil, Water colour, Poster colouror Acrylic colour	Projects may integrate with Maths, Social Science.	Understanding and usage of different limbs of Indian Art in the art works created by students
SEPTEMBER 2025	25	**CompositionPainting:** 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, *Karuna, Bhakti, Vatsalya*, etc. may be incorporated. (Presentation of compositions by great masters may be shown. Reference may be takenfromInternet)	Water colour, Poster colour or Acrylic colour. A system with internet facility in Artroomis essential	Projects may integrate with Hindi & other language subjects	Understand theversatility, usage of medium and composition of painting.
		TERM–I EXAMINATION (12 to 25 SEPTEMBER 2025)			

OCTOBER 2025	25	**Design(2-Dimensional):** **Design-** Creating a piece of design by using a single object in black & white and colour. **Lettering-** Composing alphabets in black & white and colour.	Pen & ink Poster colour		Understanding the process of creating designs with one element.
NOVEMBER 2025	24	**Design (3-Dimensional):** • Designing three dimensional objects in clay • Study and use of waste materials like, paper, sticks, straw, fibre, etc. • Understanding of negative and positive space. Composition in clay and POP blocks.	Clayand POP	Projects may integrate with Mathematics, Science and Language Subjects.	Learn different types of sculpture techniques.
		Computer Aided Designs: 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.)	Computer with internet. Installation of Photoshop & Corel Draw.	Projects may integrate with Mathematics, Computer Science and Typography	Usage of different designing software.
DECEMBER 2025		REVISION			
JANUARY 2026		REVISION			
FEBRUARY / MARCH 2026		REVISION **CBSE EXAMINATION**			

List of **VIKASITH BHARATH** 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

- 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 concepts with a broader vision.
- Students are exposed to the integration of latest technology in music.

MONTH	NO. OF DAYS	Main-Topics and Sub -Topics to be Covered	Projects/ Art (Performing) Integrated Pedagogy- Activities	Assessment Tool(s)/ Practical Activities Prescribed (Vocal/ Instrumental)	REMARKS
APRIL/ JUNE 2025	24	1. Light music OR Sugam Sangeeth (Geeth, Bhajan, Folk Songs, Patriotic, songs)	SUGGESTED ACTIVITIES • Discussion and demonstration of lightmusic **(Interdisciplinary Approach)** • Language & Literature: • Students are exposed to the importance of words in such compositions. Social Science • Students get exposed to the life styleof different people and their values.	• Demonstration using digital resources of different musical performances. • Project Work – • Students are asked to preparecharts containingpictures of performers of respective styles of music.	Light music or Sugam sangeeth required 2 periods to practice
		2.Ghazals, Bhajan	• Discussion about the music formghazals, bhajan and its poetic values **(Interdisciplinary Approach)** Language & literature • Students will get acquainted with poetic beauty of the language. History • Students may explore the historical reference of music and	• Question Answer • Project work – prepare a list offamous ghazal singers	Ghazal or bhajan Required 2 periods

			its development through the mixture ofdifferent cultures.		
JULY 2025	**27**	3. Classical Dance forms of India.	• Discussion about the classical danceforms of India. • Discussion of the integration of art,music and dance in various forms. • Discussion about the aesthetic valueof costumes used in such forms. **(Interdisciplinary Approach)** Art & Culture: Students get exposed to the different aspects of art like colour scheme, theme, emotion etc. Social Science: Students will get an idea about the historical importance and development ofsuch art forms	Show videos of danceforms of India. Show videos of learning the art form &preparations of costumes for the performances. Project Work – • Students are asked to prepare apresentation of different dance forms.	
		4. Brief Introduction of Oscar award winner A, R Rahman. Or Bharat ratna lata Mangeshkar	Discussion about life of A.R Rahman. Discuss about the adoption of technologyin making music. **(Interdisciplinary Approach)** ***XII)*** Value Education Students will get anidea about the importance of aim, dream and dedication to achieve something great in life through this topic.	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.	
AUGUST 2025	**24**	5. Life history of Pandit. Bhimsen Joshi	Discussion about the life of Pandit. BhimsenJoshi and his contributions to Indian music. **(Interdisciplinary Approach)** Social Science: Students get exposed to the social life in different parts of the country.	• Use of digital resources Question and Answers • Project Work – Collect the pictures of famousIndian Vocalists.	

		6. Life history of Pandit Ravishankar Or Ustad Bismillah khan	Discussion about the life of Pandit Ravishanker and his contributions to Indian music. **(Interdisciplinary Approach)** Social Science: Students get exposed to the social life in different parts of the country.	• Question – Answer about thesystems of musicin India. • Preparation of a chart of Stringed instruments of India.	
SEPTEMBER 2025	**25**	7 Introduction to 'Audacity' a Digital Audio Workstation	xx) Demonstration of software which isavailable as free to download (Opensource) **(Interdisciplinary Approach)** • IT: Students get exposed to the revolutionary changes brought by IT in the field of music. Science: Students are exposed to the field of audio engineering and music production.	• Question - Answers • Students are asked to do multitrack recording, editingand mixing of audio files.	
		TERM - I EXAMINATION (12 to 25 SEPTEMBER 2025)			
OCTOBER 2025	**25**	8. A Bhajan of your choice.	• Discussion about the song and itsmeaning • Discussion about Human values. • Recitation of the song by teacherfollowed by the students **(Interdisciplinary Approach)** VALUE EDUCATION: Students explore human values as described in the Bhajan SOCIAL SCIENCE: Collect information about lives and deedsof various saints and leaders who have lived according to the values in their life and set an example.	• Vocal / Instrumental Performance • Simple question –Answer about Raga upon which the tune of the Bhajan is based etc.	
NOVEMBER 2025	**24**	9.Voice culture and singing techniques	• Discuss and demonstrate about theimportance of voice and words in music. **(Interdisciplinary Approach)** Science: Students explore the production and dynamics of sound.	xx) Vocal performance xxi) Students are asked to list someexamples.	

		10.Creating a new song for Vidyalayawith the help of language teachers	• Discussion about structure of amusical composition. • Discussion on the importance of lyric. **(Interdisciplinary Approach)** Language & 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.	15. Vocal /Instrumental performance 16. Presentation of song on stage anddigital release of the same in social media.	
DECEMBER 2025			REVISION PRACTICAL EXAMINATION (VOCAL / INSTRUMENTAL)		
JANUARY 2026			REVISION		
FEBRUARY / MARCH 2026			REVISION **CBSE EXAMINATION**		

- 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.
- Two workshops on music (Vocal/Instrumental) may be conducted with the help of professional artists to enable children to perform on the stage.
- Weekly coaching classes may be conducted (vocal / instrumental) with the help of professionals in the respective field by using VN.

SPLIT UP SYLLABUS

FOR

CLASS XI

NAVODAYA VIDYALAYA SAMITI

CLASS: XI SUBJECT: ENGLISH CORE (301)

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 2) Speaking 3) Project work	 05 05 10
	Grand Total	**100**

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)
			Hornbill/ Snapshots	**Reading, Grammar& Advance Writing Skills**		
APRIL / JUNE 2025	24	28	The Summer of the Beautiful White Horse (Prose) A Photograph (Poem) The Portrait of a Lady (Prose)	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. 3.Prepare a 'Thank you' card for your mother /grandfather and mention one of her/ his characteristic traits that inspire you the most. 4. Write few lines on the characteristics of your parents that you like the most.
	UNIT TEST -I					
JULY 2025	27	31	We're not Afraid to Die ... if We Can All Be Together (Prose) Discovering Tut: the saga Continues (Prose)	Short Writing Task-Poster Unseen Passage to assess comprehension, interpretation, inference and vocabulary. (Factual, descriptive or literary)		1. Making posters on current topics- Cyber Security, AI etc. 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. 4. Browse internet to get more information about the mummies of Egypt
AUGUST 2025	24	28	The Laburnum Top (Poem) The Address (Prose)	Unseen Passage: Case –based passage with Verbal / Visual inputs like statistical data, chart etc.	Grammar - Practice of Questions on Gap filling (Tenses, Clauses)	1.Practice of ASL 2 .Listening skills practice test. 3.Presentation of speeches by students both oral & written 4. Read the diary of Lena Mukhina who struggled to fight starvation and an internal battle of isolation. 5. 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
			UNIT TEST -II			

SEPTEMBER 2025	25	15	The Voice of the Rain (Poem) Mother's Day (Play)	• Long Compositions: a. Speech Writing. b. Debate Writing. • Grammar: Questions on re-ordering / Transformation of sentences • Note Making & Summarization	• Topics for assessment of speaking skills to be assigned to students. • Fastest reading contest may be organized. • Ask the students to write a poem on natural phenomena. • The students may be asked to find out experiments in recycling that help in environmental conservation.
	TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)				
OCTOBER 2025	25	20	Childhood (Poem) Birth (Prose)	Practice on Classified Advertisement	1) Group discussion on the following issues that has provoked controversies and affected the lives of people- • Cyber bullying • Union common civil code • Gender discrimination etc. 2) Write a brief note on one of your childhood experiences (good or bad) and present the same in the class. 3) Story–Telling Competition
NOVEMBER 2025	24	28	The Adventure (Prose) Revision of writing skills – Speech Writing, Debate writing	Transformation of sentence.	Topics on speech writing – 1. Artificial Intelligence 2. Women Empowerment 3. Use of Social Media Topics of Debate Writing may also be discussed.
DECEMBER 2025	26	30	Silk Road (Prose) Revision Project Work	Comprehension of Unseen Passages (Revision) Preparation for the presentation of ASL	• Project work to be assigned. • The documentary film on the Mount Kailash may be shown and may be asked to write a brief note on it. • The students may be asked to write about a journey that they have undertaken. • Project on the stories of the people who scaled Mount Everest
			UNIT TEST III		

JANUARY 2026	25	29	Father to Son (Poem)	Note Making and Summarization (Revision)	• 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. • Organise the Story–Telling Competition • Create a dialogue between father and so non generation gap (dialogue may be Written by students)
FEBRUARY 2026	24	28	The Tale of Melon City	Revision of unseen comprehension passage (Case Based)	Submission of Project. ASL to be conducted. Revision of syllabus
			UNIT TEST IV		
MARCH 2026	**REVISION** **TERM -II EXAMINATION (16 to 28 MARCH 2026)**				

नवोदय विद्यालय समिति

CLASS: XI **SUBJECT: हिन्दी (302)**

इकाई सं	इकाई / पाठ का नाम	उप–भारांक	भारांक
	खंडक (अपठित गद्यांश एवं पद्यांश के प्रश्न)		
1.	**अपठित गद्यांश/ पद्यांश:** 1)एक अपठित गद्यांश (अधिकतम 300 शब्दों का) बहुविकल्पीय प्रश्न (1 अंक x 3 प्रश्न) अति लघूत्तारात्मक प्रश्न (1 अंक x 1 प्रश्न) लघूत्तारात्मक प्रश्न (2 अंक x 3 प्रश्न) 2)एक अपठित पद्यांश (अधिकतम 150 शब्दों का) बहुविकल्पीय प्रश्न (1 अंक x 3 प्रश्न) अति लघूत्तारात्मक प्रश्न (1 अंक x 1 प्रश्न) लघूत्तारात्मक प्रश्न (2 अंक x 2 प्रश्न)	**10** **8**	**18**
	खंडख (अभिव्यक्ति और माध्यम के प्रश्न)		
2.	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 (स्ववृत्त लेखन और रोज़गार संबंधी आवेदन पत्र) तथा 16 (कोश- एक परिचय) पर आधारित • दिये गए चार अप्रत्याशित विषयों से किसी एक विषय पर लगभग 120 शब्दों में रचनात्मक लेखन (6 अंक x 1 प्रश्न) • औपचारिक पत्र लेखन (विकल्प सहित) (5 अंक x 1 प्रश्न) • डायरी लेखन, कथा- पटकथा, स्ववृत्त लेखन और रोज़गार संबंधी आवेदन पत्र और शब्दकोश, सन्दर्भ ग्रंथों की उपयोगी विधि और परिचय विषयों पर पांच में से चार प्रश्न (विकल्प सहित) (लगभग 40 शब्दों में)(2 अंक x 4 प्रश्न) • डायरी लेखन, कथा- पटकथा, स्ववृत्त लेखन और रोज़गार संबंधी आवेदन पत्र और शब्दकोश, सन्दर्भ ग्रंथों की उपयोगी विधि और परिचय विषयों पर दो में से एक प्रश्न (विकल्प सहित) (लगभग 60 शब्दों में)(3 अंक x 1 प्रश्न)	**6** **5** **8** **3**	**22**
	खंडक (आरोह 1 एवं वितान 1 के प्रश्न)		

3.	पाठ्य पुस्तक **आरोह भाग -1** से बहुविकल्पात्मक प्रश्न • पठित काव्यांश पर पाँच बहुविकल्पी प्रश्न (1 अंक x 05 प्रश्न) • पठित गद्यांश पर पाँच बहुविकल्पी प्रश्न (1अंक x 05 प्रश्न)	**5** **5**	**10**
4	पाठ्य पुस्तक **आरोह भाग-1** • **काव्य खंड** पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर (लगभग 60 शब्दों में) (3 अंक x 2 प्रश्न) • **काव्य खंड** पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर (लगभग 40 शब्दों में) (2 अंक x 2 प्रश्न) • **गद्य खंड** पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर (लगभग 60 शब्दों में) (3 अंक x 2 प्रश्न) • **गद्य खंड** पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर (लगभग 40 शब्दों में) (2अंक x 2 प्रश्न)	**6** **4** **6** **4**	**20**
5	**पूरक पाठ्य पुस्तक 'वितान भाग -1 ' से** निर्धारित पाठों पर आधारित 3 में से 2 निबंधात्मक प्रश्न (लगभग 100 शब्दों में) (5 अंक x 2 प्रश्न)	**10**	**10**
7.	श्रवण एवं वाचन परियोजना कार्य	**10** **10**	**20**
	कुल	**100**	**100**

पाठ्यक्रम विभाजन – कक्षा ग्यारहवी – हिंदी आधार (सत्र 2025-26)

माह	कार्यदिवस	कालांश	पाठ / उप-पाठ का नाम			
			आरोह भाग –एक	**वितान भाग – एक**	**अभिव्यक्ति और माध्यम / रचनात्मक लेखन**	**क्रिया-कलाप / परियोजना कार्य**
अप्रैल/जून 2025	24	28	**गद्य खंड** नमकका दारोगा - प्रेमचंद **पद्य खंड** हम तौ एक एक करि जांनां - कबीर	भारतीय गायिकाओं में बेजोड़ : लता मंगेशकर- कुमार गंधर्व	अपठित गद्यांश अपठित पद्यांश	अन्य संत कवियों के ईश्वर सम्बन्धी विचारों पर परिचर्चा
			प्रथम इकाई परीक्षा			
जुलाई 2025	26	30	**गद्य खंड** मियाँनसीरुद्दीन – कृष्णा सोबती अपू के साथ ढाई साल – सत्यजित राय पद्य खंड • मेरे तो गिरिधर गोपाल, दूसरो न कोई - मीराबाई	भारतीय गायिकाओं में बेजोड़ : लता मंगेशकर- कुमार गंधर्व	1-जनसंचार माध्यम 2-औपचारिक पत्र लेखन	संगीत शिक्षक सेचर्चा कर चित्रपट संगीत व शास्त्रीय संगीत में अंतर सूचीबद्ध करना
अगस्त 2025	25	28	**गद्य खंड** विदाई संभाषण – बालमुकुंद गुप्त **पद्य खंड** 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।
			द्वितीय इकाई परीक्षा			
सितम्बर 2025	17	19	**पुनरावृत्ति** **गद्य खंड** गलता लोहा- शेखर जोशी **पद्य खंड** 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 करनेवाली कुछ कविताओं का संकलन ।
			सत्रांत परीक्षा-1 (12-25 सितंबर 2025)			

अक्टूबर 2025	21	24	**गद्य खंड** रजनी – मन्नू भंडारी	आलो-आँधारि (बेबी हालदार)	कार्यालयी लेखन और प्रक्रिया	कार्यालयी लेखन और प्रक्रिया में प्रयुक्त होने वाले प्रपत्रों की जानकारी प्राप्त करना
नवंबर 2025	20	23	**पद्य खंड** गज़ल - दुष्यंत कुमार	आलो-आँधारि (बेबी हालदार)	स्ववृत्त (बायोडेटा)लेखन	
दिसंबर 2025	20	23	**पुनरावृत्ति** **गद्य खंड** जामुन का पेड़ (कृश्नचंदर)		आलो-आँधारि (बेबी हालदार)	रोजगार संबंधी आवेदन पत्र
			तृतीय इकाई परीक्षा			
जनवरी 2026	14	16	**गद्य खंड** भारत माता – जवाहरलाल नेहरू **पद्य खंड** हे भूख! मत मचल-अक्क महादेवी हे मेरे जूही के फूलजैसे ईश्वर-अक्क महादेवी	भारतीय कलाएँ	कोश- एक परिचय एवं संदर्भ ग्रन्थोंकी उपयोगी विधि और परिचय	पुस्तकालय मेंउपलब्ध विभिन्न प्रकार के शब्दकोशों की सूची बनाना
फरवरी 2026	24	28	**पद्य खंड** सबसे खतरनाक -अवतार सिंह पाश आओ, मिलकर बचाएँ – निर्मला पुतुल	भारतीय कलाएँ	रचनात्मक लेखन संक्षिप्त प्रश्नोत्तर	
			चतुर्थ इकाई परीक्षा			
मार्च 2026			वार्षिक परीक्षा को ध्यान में रखते हुए पूर्व पठितांश की पुनरावृत्ति। **वार्षिक परीक्षा (16-28 मार्च 2026)**			

NAVODAYA VIDYALAYA SAMITI

CLASS: XI **SUBJECT: MATHEMATICS (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 (20 Marks) 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) 2. Assessment of the activity performed during the year end test (03Marks) 3. Viva-voce (02Marks)		20
	Grand Total		100

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)	REMARKS
JUNE 2025	21	20 10	**Unit -I : Sets and Functions** **Sets** 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. **Relations and Functions** 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 R x R x R).Definition of relation, pictorial diagrams, domain, co-domain and range of a relation.	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 2n	UNIT TEST I
JULY 2025	27	10 20	**Relations and Functions** (continue) 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. **Trigonometric functions** Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity $\sin 2x + \cos 2x = 1$, for all x. Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing sin (x±y) and cos (x±y) in terms of sinx, siny, cosx & cosy and their simple applications. Deducing identities like the following:	Activity2: To plot the graphs of sinx, sin 2x, $2\sin\frac{x}{2}$ and $\sin\frac{x}{2}$ Using the same coordinate axis	

		10	$\tan(x \pm y) = \frac{\tan x \pm \tan y}{1 \mp \tan x \tan y}$ $\cot(x \pm y) = \frac{\cot x \cot y \mp 1}{\cot y \pm \cot x}$ $\sin x \pm \sin y = 2\sin\frac{x \pm y}{2}\cos\frac{x \mp y}{2}$ $\cos x + \cos y = 2\cos\frac{x+y}{2}\cos\frac{x-y}{2}$ $\cos x - \cos y = 2\sin\frac{x+y}{2}\sin\frac{x-y}{2}$ Identities related to sin2x, cos2x, tan2x, sin3x, cos3x and tan3x etc., **Unit–II: Algebra** **Complex numbers and Quadratic equations** Need for complex numbers, especially$\sqrt{-1}$, to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. Argand plane		
AUGUST 2025	21	10 10 10	**Permutations and Combinations:** Fundamental principle of counting. Factorial n. (n!) Permutations and combinations, derivation of Formulae for $^{n}p_{r}$ and $^{n}c_{r}$ and their connections, simple applications. **Linear inequalities** Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line. **Binomial Theorem** Historical perspective, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle, simple applications.	Activity 3 To verify that the graph of given inequality by 5x+4y-40<0 of the form ax+by+c<0 a,b >0 and c<0 Activity 4 To construct a Pascal triangle and to write binomial expansion for a given positive integral	**UNIT TEST II**
SEPTEMBER 2025	12	10 15	**Sequences and Series** Sequence and Series. Arithmetic Mean (A.M.), 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. **UNIT III: COORDINATE GEOMETRY** **Straight lines** 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	Activity 5 To demonstrate that the arithmetic mean of two different positive numbers is always greater than the geometric mean. Activity 6 To verify that the equation of a line passing through the point of intersection of two	

			a point from a line.	lines a1x+b1y+c1=0 and a2x+b2y+c2 =0 is of the form (a1x+b1y+c1) +λ(a2x+b2y+c2)= 0	
TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)					
OCTOBER 2025	8	10	**Conic Sections** 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.		
NOVEMBER 2025	24	15 10 5	**Conic Sections(cont)** Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle. **Introduction to 3D geometry** Coordinate axes and Coordinate planes in three dimensions. Coordinates of a point. Distance between two points **Unit – IV: Calculus** **Limits And Derivatives** Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea of limit.	Activity 7 To construct different types of conic sections Activity 8 To explain the concept of octants by 3 mutually perpendicular planes in space Activity 9 To find analytically $\lim_{x\to c} f(x) = \frac{x^2 - c^2}{x - c}$	
DECEMBER 2025	23	35	**Limits And Derivatives (cont)** Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions. Definition of derivative relate it to scope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric function		**UNIT TEST –III**

JANUARY 2026	19	20	**Unit- V: Statistics and Probability** **Statistics** Measures of Dispersion: Range, Mean deviation, variance and standard deviation of ungrouped/ grouped data.		
FEBRUARY 2026	18	20	**Probability** 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-IV**
MARCH 2026			REVISION **TERM II EXAMINATION** **(16 to 28 MARCH 2026)**		

Prescribed Books:

1) Mathematics Textbook for Class XI, NCERT Publication
2) Mathematics Exemplar Problem for Class XI, Published by NCERT
3) 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 (042)

UnitNo	Name of the Chapter/ Unit	No. of Periods	Marks
Unit–I	**Physical World and Measurement**	**08**	**23**
	Chapter–2:Units and Measurements		
Unit-II	**Kinematics**	**24**	
	Chapter–3:Motion in a Straight Line		
	Chapter–4:Motion in a Plane		
Unit–III	**Laws of Motion**	**14**	
	Chapter–5: Laws of Motion		
Unit–IV	**Work, Energy and Power**	**14**	**17**
	Chapter–6:Work, Energy and Power		
Unit–V	**Motion of System of Particles and Rigid Body**	**18**	
	Chapter–7: System of Particles and Rotational Motion		
Unit-VI	**Gravitation**	**12**	
	Chapter–8:Gravitation		
Unit–VII	**Properties of Bulk Matter**	**24**	**20**
	Chapter–9:Mechanical Properties of Solids		
	Chapter–10: Mechanical Properties of Fluids		
	Chapter–11:Thermal Properties of Matter		
Unit–VIII	**Thermodynamics**	**12**	
	Chapter–12:Thermodynamics		
Unit–IX	**Behaviour of Perfect Gases and Kinetic Theory of Gases**	**08**	
	Chapter–13:KineticTheory		
Unit–X	**Oscillations and Waves**	**26**	**10**
	Chapter–14:Oscillations		
	Chapter–15:Waves		
Total		**160**	**70**

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 / Assignment
APRIL/ JUNE 2025	24	24		**Units and Measurements:** 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. **Motion in a Straight Line:**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).	**Experiments: 1** (Measure the diameter of a small spherical/cylindrical body and to calculate its volume using Vernier callipers) **Activity:1** (Make a paper scale of given least count 0.2cm, 0.5 cm)	UNIT TEST-1
JULY 2025	27	24	23	**Motion in a Plane:** 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. Motion in a plane, cases of uniform velocity and uniform acceleration-projectile motion, uniform circular motion. **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. Equilibrium of concurrent forces, Static and kinetic friction, laws of friction, rolling friction, lubrication.	**Activity:2** (By the principle of moments ,find out the mass of a given body)	

AUGUST 2025	**24**	**14** **08**	**17**	Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road). **Work, Energy and Power :** 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. Conservative forces: non-conservative forces, motion in a vertical circle; elastic and inelastic collisions in one and two Dimensions **System of Particles and RotationalMotion:** 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.	**Experiments: 2&3** 2.Measure the diameter of a given wire and thickness of a given sheet using Screw gauge 3.Using simple pendulum plot L-T2 graph and use it to find out the effective length of Second's pendulum **Activity: 3** (3. Study the variation in range of a projectile with angle of projection.	**Assignment-2 (**Based on projectile motion and Newton's Laws of motion) **UNIT TEST-II**
SEPTEMBER 2025	**25**	**6** **18**		Moment of a force, torque, angular momentum, law of conservation of angular momentum and its applications. 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).	**Experiments: 4&5** 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 **Activity: 4** Observe change of state and plot a cooling curve for molten wax	**Assignment -3** (Based on work –energy- power and System of Particles and
		TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)				
OCTOBER 2025	**25**	**12**		Gravitation: Kepler's laws of planetary motion, universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy and gravitational potential, escape velocity, orbital velocity of a satellite.	**Experiment: 6 & 7** (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 **Activities: 5** (5. Study the factors affecting the rate of loss of heat of a liquid)	

NOVEMBER 2025	**24**	**18**	**20**	**Mechanical Properties of Solids:** Elasticity, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity (qualitative idea only), Poisson's ratio; elastic energy. **Mechanical Properties of Fluids:** 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. 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.	**Experiment: 8** Find the speed of sound in air at room temperature using a resonance tube at two resonance positions **Activity 6** Study the effect of load on depression of a suitably clamped meter scale loaded at its 1) ends 2) Its middle	**Assignment -4** Based on properties of matter
DECEMBER 2025	**26**	**06** **12**		**Thermal Properties of Matter:** 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. **Thermal Properties of Matter:** Heat transfer-conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law. **Thermodynamics:** 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.	**Project: 1** From the list provided by CBSE Completion of left over practical	**UNIT TEST-III**

JANUARY 2026	**25** **26**	**08**	**10**	**Kinetic Theory:** 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. **Oscillations:** 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.	Completion of left over practicals, Activities & project.	
FEBRUARY 2026	**24**	**30**		**Waves**: reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats. Revision		**UNIT TEST-IV**
MARCH 2026				**PRACTICAL EXAM, REVISION & TERM-II EXAMINATION (16 to 28 MARCH 2026)**		

PRACTICALS

Total Periods 60

The record, to be submitted by the students, at the time of their annual examination, has to include: Record of at least 8 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 of 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
Oneactivity from any section	3 Marks
Investigatory Project	3 Marks
Viva on experiments, activities and project	5 Marks
Total	30marks

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-T2 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 co- efficient 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 θ by plotting graph between force and Sin θ.

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

1. To determine Young's modulus of elasticity of the material of a given wire.
2. To find the force constant of a helical spring by plotting a graph between load and extension.
3. 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.
4. To determine the surface tension of water by capillary rise method.
5. To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.
6. To study the relationship between the temperature of a hot body and time by plotting a cooling curve.

7. To determine specific heat capacity of a given solid by method of mixtures.
8. To study the relation between frequency and length of a given wire under constant tension using sonometer.
9. To study the relation between the length of a given wire and tension for constant frequency using sonometer.
10. 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.

Practical Examination for Visually Impaired Students Class XI

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 used, weights, arrangement used for measuring extension, Sonometer, Wedges, pan and pulley used in it, 'weights' 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-T2 graphs. Hence find the effective length of second's 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 a sonometer.
- To study the relation between the length of a given wire and tension, for constant frequency, using a sonometer.
- To find the speed of sound in air, at room temperature, using a resonance tube, by observing the two 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 **2025-26** is not to be tested by schools.

NAVODAYA VIDYALAYA SAMITI

CLASS: XI SUBJECT: CHEMISTRY (043)

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
Total	30 Marks

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 Held/ Specific Assessment Tool(s) (Suggested)	Unit Test / Term /Pre-Board/ Annual Exam
APRIL/JUNE 2025	24	18 + 07	**7** **3**	**Unit 1: Some Basic Concepts of Chemistry (18 Periods)** General Introduction: Importance and scope of Chemistry. Nature of matter, laws of chemical combination, Dalton's atomic theory: concept of elements, atoms and molecules. Atomic and molecular masses, mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry. **Unit 2: Structure of Atom (20 Periods)** Discovery of Electron, Proton and Neutron, atomic number, isotopes and isobars. Thomson's model and its limitations. Bohr's model and its limitations,	**Basic Laboratory Techniques** Cutting glass tube and glass rod. Bending a glass tube Drawing out a glass jet. Boring a cork. Use of Chemical Balance Preparation of standard solution of Oxalic Acid. Preparation of standard solution of sodium carbonate.	**UNIT TEST-I**

JULY 2025	27	13 + 06	**06** **03**	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. **Unit 3: Classification of elements and periodicity in properties (12 Periods)** Significance of classification, brief history of the development of periodic table. Modern periodic law and the present form of periodic table,	**Characterization and Purification of Chemical Substance** Crystallization of an impure sample of any one of the following: alum, copper Sulphate, benzoic acid. • Determination of melting point of an organic Compound. • Determination of Boiling point of an organic compound • Determination of strength of a given solution of Sodium hydroxide by titrating it against standard solution of oxalic acid	
AUGUST 2025	24	06+ 20	**03** **07**	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. **Unit 4: Chemical bonding and molecular structure (20 Periods)** 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.	Determination of strength of a given solution of hydrochloric acid by titrating it against standard solution of sodium carbonate.	**UNIT TEST -II**

SEPTEMBER 2025	24	23	**09**	**Unit: 5 Thermodynamics (23 Periods)** 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 ΔU and ΔH, 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 for equilibrium. Third law of Thermodynamics (brief introduction)	Enthalpy of dissolutions of copper sulphate or potassium nitrate. Enthalpy of neutralization of strong acid (HCl) and strong base (NaOH) •	**TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)**

OCTOBER 2025	21	10	**04**	**Unit 6 Equilibrium (20 Periods)** 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,	**Any one of the following experiments:** **Experiments based on pH (04 Periods)** Determination of pH of some solutions obtained from fruit juices, varied concentrations of acids, bases and salts using pH paper or universal indicator. (ii) Comparingthe 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.	
NOVEMBER 2025	15	10+ 05	**03** **02**	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). **Unit 7: Redox Reactions (9 Periods)** Concept of oxidation and reduction, Redox reactions, oxidation number,	**Salt Analysis** (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) **Cations-** **Pb^{2+}, Cu^{2+}, As^{3+}, Al^{3+}, Fe^{3+}, Mn^{2+}, Ni^{2+}, Zn^{2+}, Co^{2+}, Ca^{2+}, Sr^{2+}, Ba^{2+}, Mg^{2+}, NH_4^+** **Anions-** **CO_3^{2-}, S^{2-}, SO_3^{2-}, SO_4^{2-} NO_3^-, Cl^-, Br^-, I^-, PO_4^{3-}, $C_2O_4^{2-}$, CH_3COO^-**	

DECEMBER 2025	26	04 + 10	**02** **06**	balancing redox reactions, application of redox reactions **Unit 8: Organic Chemistry - Some Basic Principles and Technique (20 Periods)** General introduction, methods of qualitative and quantitative analysis, classification and IUPAC nomenclature of organic compounds.	**Determination of Nitrogen, Sulphur, Chlorine in organic compounds**	**UNIT TEST III**
JANUARY 2026	25	10 + 06	**05** **02**	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.types of organic reactions. **Unit 9: Hydrocarbons (18 Periods)** **Classification of Hydrocarbons** **Alkanes** - Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions including free radical mechanism of halogenation combustion and pyrolysis.	**Few investigatory projects** 1.Study the Methods of Purification of Water. 2.Investigation of foaming capacity of different washing soaps and the effect of addition sodium carbonate.	

FEBRUARY 2026	24	12	**08**	**Alkenes -** 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. **Alkynes -** 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. **Aromatic Hydrocarbons:** 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. **REVISION AND PRACTICAL EXAMINATION**	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.	**UNIT TEST IV**
MARCH 2026				**TERM II EXAMINATION** **(16 to 28 March 2026)**		

NAVODAYA VIDYALAYA SAMITI

CLASS: XI SUBJECT: BIOLOGY (044)

UNIT NO.	NAME OF THE CHAPTER / UNIT	MARKS	PERIODS
I	Diversity of Living Organisms	15	30
II	Structural Organization in Plants and Animals	10	38
III	Cell : Structure and Function	15	28
IV	Plant Physiology	12	30
V	Human Physiology	18	60
	Total	70	186
	Practical	30	
	Grand Total	100	

PRACTICALS

Time Allowed: Three Hours **Max. Marks: 30**

Evaluation Scheme		Marks
One Major Experiment Part A (ExperimentNo-1,3,7,8)		5
One Minor Experiment Part A (ExperimentNo-6,9,10,11,12,13)		4
Slide Preparation Part A (ExperimentNo-2,4,5)		5
Spotting Part B		7
Practical Record + Viva Voce	**Credit to the students' work 4 Marks over the academic session may be given**	4
Project Record + Viva Voce		5
Total		30

MONTH	NO OF DAYS	NO OF PERIODS	Main Topic and Sub-Topics to be Covered	Activities/ Projects/ Practical Experiments to be Held
APRIL/JUNE 2025	24	21+9=30	**Unit-I** Diversity of Living Organisms **Chapter-1**: The Living World Biodiversity; Need for classification; three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial nomenclature. (8) **Chapter-2**: Biological Classification Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups: Lichens, Viruses and Viroids. (8) **Chapter-3:** Plant Kingdom Salient features and classification of plants into major groups - Algae, Bryophyta, Pteridophyta, Gymnospermae. (8)	**Spotting:** - Study of the parts of a compound microscope. - Study of the specimens/ slides/ models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort. (3) - 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. Virtual specimens/slides/models and identifying features of-Amoeba, Hydra, liverfluke, Ascaris, leech, earthworm, prawn, silkworm, honeybee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit. (3)
			UNIT TEST I	
JULY 2025	27	27+12=39	**Chapter-4:** Animal Kingdom 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 specimens should be displayed.) (10) **Unit-II** Structural Organization in Animals and Plants **Chapter-5**: Morphology of Flowering Plants Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed. Description of family Solanaceae. (10) **Chapter-6:** Anatomy of Flowering Plants: Anatomy and functions of tissue systems in dicots and monocots. (10)	**Spotting:** - Study and identification of different types of inflorescence (cymose and racemose). **Experiment:** - 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).

AUGUST 2025	**24**	**21+09=30**	**Chapter-7:** Structural Organisation in Animals Morphology, anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of frog. (8) **UNIT-III** **Chapter-8:** Cell - The Unit of Life: 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. (8) **Chapter-9:** Bio Molecules: Chemical constituents of living cells: bio molecules, structure and function of proteins, carbohydrates, lipids, nucleic acids; Enzymes - types, properties, enzyme action. **(10)**	**Experiment 3.** - Study of osmosis by potato osmometer. 4. Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or fleshy scale leaves of onion bulb). 5. Study of distribution of stomata in the upper and lower surface of leaves. (1) **Experiment:** - Test for the presence of sugar, starch, proteins and fats. Detection in suitable plant and animal materials. **(3)**
			UNIT TEST-II	
SEPTEMBER 2025	**25**	**10+3=13**	**Chapter-10:** Cell Cycle and Cell Division Cell cycle, mitosis, meiosis and their significance. (10)	Spotting: - Study of mitosis in onion root tip cells and animal cells (grasshopper) from permanent slides. (3)
			TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)	
OCTOBER 2025	**25**	**10+3=13**	**Unit-IV Plant Physiology** **Chapter-13:** Photosynthesis in Higher Plants. 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 photo phosphosporylation; chemi osmotic hypothesis; photorespiration; C3 and C4 pathways; Factors affecting photosynthesis. (10)	Experiment: - Comparative study of the rates of transpiration in the upper and lower surface of leaves. - Separation of plant pigments through paper chromatography. (3)

NOVEMBER 2025	**24**	**24+9=33**	**Chapter-14:** Respiration in Plants 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. (10) **Chapter-15:** Plant - Growth and Development Seed germination; phases of plant growth and plant growth rate; conditions of growth; differentiation, dedifferentiation and re differentiation; sequence of developmental processes in a plant cell; growth regulators - auxin, gibberlin, cytokinin, ethylene, ABA. (10)	Experiment: - Study of the rate of respiration in flower buds /leaf tissue and germinating seeds. (03)
			Unit-V **Human Physiology** **Chapter-17:** Breathing and Exchange of Gases Respiratory organs in animals (recallonly); Respiratory system in 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 (10) **Chapter-18**: Body Fluids and Circulation 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. (12)	

DECEMBER 2025	**26**	23+9=32	**Chapter-19:** Excretory Products and their Elimination (14) **Chapter-20**: Locomotion and Movement (12)	**Experiment: -** Test for presence of urea in urine. -Test for presence of sugar in urine. -Test for presence of albumin in urine. - Test for presence of bile salts in urine. (6)
			UNIT TEST–III	
JANUARY 2026	**25**	**25+9=34**	**Chapter-21:** Neural Control and Coordination Neuron and nerves; Nervous system in humans - central nervous system; peripheral nervous system and visceral nervous system; generation and con duction of nerve impulse. (12) **Chapter-22:** Chemical Coordination and Integration 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 regulators, hypo- and hyperactivity and related disorders, dwarfism, acromegaly, cretinism, goiter, exophthalmic goiter, diabetes, Addison's disease. **Note:** Diseases related to all the human physiological systems to be taught in brief. (12) Over View of human Physiology (8)	**Spotting:** - Study of human skeleton and different types of joints. (2)
FEBRUARY 2026			**UNIT TEST –IV** **REVISION**	
MARCH 2026			**TERM-II EXAMINATION** **(16 to 28 MARCH 2026)**	

NAVODAYA VIDYALAYA SAMITI

CLASS: XI **SUBJECT: HISTORY (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/ JUNE 2025	24	34	Introduction to World History Introduction of Early Societies	A discussion on early human life and changes occurred in it.
			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.
		UNIT TEST-I		
JULY 2025	27	40	Introduction of Empires **An empire across three continents** Focus: Roman Empire, 27 BCE to 600 CE a) Political evolution b) Economic Expansion Religion-culture foundation Late Antiquity Historians' view on the Institution of Slavery	Prepare a short note on the role of slavery as a significant element in the economy of Roman empire.
AUGUST 2025	24	35	**Nomadic Empires (Up to page No. 113)** 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	How can we understand Genghis Khan as an "Oceanic ruler" **Project work:** Collection of data Preparation of project
		UNIT TEST-II		

SEPTEMBER 2025	25	30	**The Three Orders** Focus: Western Europe 13th - 16th century a) Feudal society and economy	What similarities do you find between the conditions of life for a French serf and a Roman slave
			Formation of state Church and society Historians' views on decline of feudalism	**Project work:** Analysis of the data Map Work -Location and labelling on the maps based on the given chapters.
TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)				
OCTOBER 2025	18	27	• Introduction of Changing Traditions • **Changing Cultural Traditions** Focus: Europe 14th -17th century a) New ideas and new trends in literature and arts • Relationship with earlier ideas	A project on European Renaissance Completion of the project work.
NOVEMBER 2025	24	32	• The contribution of West Asia • Historians' viewpoint on the validity of the notion 'European Renaissance • Introduction to Paths of Modernization	A project on European Renaissance Completion of the project work
DECEMBER 2025	26	35	**Displacing Indigenous People** 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^{th} century. Map based on the Theme: Displacing Indigenous People
		UNIT TEST-III		

JANUARY 2026	25	32	**Paths To Modernization** 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.
FEBRUARY 2026	24	30	Historians' Debate on the meaning of modernization	Map based on the Theme: Paths to Modernization
		UNIT TEST-IV		
MARCH 2026	**REVISION** **TERM II EXAMINATION (16 to 28 MARCH 2026)**			

The learning objectives and learning outcomes of each theme must be followed as per the CBSE class XI course structure (2025-26).

NAVODAYA VIDYALAYA SAMITI

CLASS: XI **SUBJECT: GEOGRAPHY (029)**

Sl. No.	NAME OF THE 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 / JUNE 2025	24	34	**Fundamentals of Physical Geography.** **Unit 1** 1 Geography as a Discipline Unit II 2The Origin and Evolution of the Earth **India – Physical Environment.** **Unit 1** 1 India — Location **UNIT TEST-I**	Practical work in Geography 1. Introduction to Maps Activities
JULY 2025	27	40	**Fundamentals of Physical Geography.** **Unit II** 3 Interior of the Earth 4 Distribution of Oceans and Continents **India – Physical Environment.** **Unit II** 2 Structure and Physiography	Practical work in Geography 1 2. Map Scale Assignment / map work – India Political
AUGUST 2025	24	34	**Fundamentals of Physical Geography.** **Unit III** 5. Geomorphic Processes 6. Landforms and their Evolution **UNIT IV** 7. Composition and Structure of Atmosphere **UNIT TEST-II**	Practical work in Geography 1 3. Latitude, longitude and time Activities Assignment / Map Work – Physical Features of India
SEPTEMBER 2025	25	16	**India – Physical Environment.** **Unit II** 3 Drainage System	Practical work in Geography Assignment / Map Work – Rivers and Lakes of India
	TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)			

OCTOBER 2025	**25**	**27**	**Fundamentals of Physical Geography.** **Unit IV** 8. Solar Radiation, Heat Balance and Temperature **India – Physical Environment.** **Unit III** 4 Climate	Activities Assignment/ project works
NOVEMBER 2025	**24**	**34**	**Fundamentals of Physical Geography.** **Unit IV** 9.Atmospheric Circulation and Weather Systems **Fundamentals of Physical Geography.** **Unit IV** 10 Water in the Atmosphere **Fundamentals of Physical Geography.** **Unit IV** 11. World Climate and Climate Change	Activities Assignment/ project works
DCEMBER 2025	**26**	**26**	**Fundamentals of Physical Geography.** **Unit V** 12 Water (Oceans) **India – Physical Environment.** **Unit III** 5 Natural Vegetation	Practical work in Geography 1 4. Map Projections
		UNIT TEST-III		
JANUARY 2026	**25**	**22**	**Fundamentals of Physical Geography.** **Unit V** 13.Movements of Ocean Water **Unit IV** 6. Natural Hazards and Disasters	Practical work in Geography 1 5. Topographical Maps. Map Work: Location of Biosphere reserves and major forest types
FEBRUARY 2026	24	24	**Fundamentals of Physical Geography.** **Unit VI** 14. Biodiversity and Conservation	Practical work in Geography 1 6. Introduction to Remote sensing
	UNIT TEST-IV			

MARCH 2026	**REVISION** **TERM II EXAMINATION** **(16 to 28 MARCH 2026)**

SUGGESTED CLASS ROOM ACTIVITIES: -

- GROUP DISCUSSION OR DEBATE
- MAP PRACTICE
- GRAPH AND DATA INTERPRETATION
- FOCUS ON LOCAL AREA RESOURCES & ENVIRONMENT
- ASSERTION AND REASIONING
- CASE BASED QUESTIONS
- MATCHING EXERCISES
- COMPETENCY BASED QUESTIONS
- OTHER RELEVENT ACTIVITIES
-

Note*:* *Any changes in the syllabus, if announced by CBSE during the academic year 2025-26, 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: XI **SUBJECT: ECONOMICS (030)**

Units		Marks	Periods
Part-A	**Statistics for Economics**		
	Introduction	15	10
	Collection, Organization and Presentation of Data		30
	Statistical Tools and Interpretation	25	50
		40	90
Part-B	**Introductory Micro Economics**		
	Introduction	04	10
	Consumer's Equilibrium and Demand	15	40
	Producer Behavior and Supply	15	35
	Forms of Market and Price Determination under Perfect Competition with simple applications	06	25
		40	110
	Theory Paper (Total)	**80**	**200**
Part-C	**Project Work**	20	20
	Grand Total	**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/ JUNE 2025	24	30	**Unit1: Introduction:** What is Economics? Meaning, Scope, Functions of Statistics Importance of Statistics in Economics. **Unit 2: Collection, Organization and Presentation of data** **Collection of data**- sources of data- primary and secondary; how basic data collected with concepts of Sampling; methods of collecting data; some important sources of secondary data: Census of India and National Sample Survey Organization. **UNIT TEST-I** *Syllabus:-Introduction & Collection of Data*	**Activity Based Teaching** 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.
JULY 2025	27	35	**Organization of Data:** Meaning and types of variables; Frequency Distribution **Presentation of Data:** 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). **Unit:3 Statistical Tools and Interpretation** (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. **Measures of Central Tendency-** Arithmetic Mean, Median and Mode	**Activity Based Teaching:** Construction of Bar diagramon Student strength of different class on the basis of Sex, Category etc. Calculation of Modal Shoes 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.

AUGUST 2025	24	25	Correlation: Meaning and properties, Scatter diagram; Measures of correlation–Karl Pearson's method (two variables ungrouped data), Spearman's rank correlation. (Non-Repeated Ranks and Repeated Ranks). Introduction to Index Numbers- meaning, types- wholesale price index, Consumer price Index and index of industrial production, uses of index numbers; inflation and index numbers. Simple Aggregative Method.	Questions on different types of Correlation, Rank Correlation Assertion and Reason types of Questions based on Correlation, Index Numbers Calculation of inflation rate
			UNIT TEST-II Syllabus for UT-II Exam: - Organization of Data, Presentation of Data, Statistical Tools Interpretation, Measures of Central Tendency – Arithmetic Mean, Median, Mode etc.	
SEPTEMBER 2025	25	15	**INTRODUCTORY MICRO ECONOMICS (40 MARKS)** **UNIT4: Introduction** Meaning of micro economics and macro economics; positive and normative economics What is an economy? Central problems of an economy: what, how and for whom to produce; concepts of production possibility frontier and opportunity cost.	
	TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)			
OCTOBER 2025	25	28	**Unit-5: Consumer's Equilibrium and Demand** Consumer's equilibrium -meaning of utility, marginal utility, law of diminishing marginal utility, conditions of consumer's equilibrium using marginal utility analysis. Indifferencecurveanalysisof Consumer's equilibrium-the Consumer's budget (budget set and budget line), preferences of the consumer (indifference curve, indifference map) and conditionsof consumer's equilibrium.	Project Work: 1.Effecton PPC due to various government policies Opportunity Cost as an Economic Tool (taking real life situations)

NOVEMBER 2025	24	30	Demand, market demand, determinants of demand, demand schedule, demand curve and its slope, Movement along and shifts in the demand curve; Price elasticity of demand - factors affecting price elasticity of demand; measurement of price elasticity of demand – percentage- change method and total expenditure method. **Unit 6: Producer Behavior and Supply** Meaning of Production Function–Short-Run and Long-Run, Total Product, Average Product and Marginal Product, Returns to a Factor.	**Activity based Teaching:** Individual Demand &Market Demand Schedule
DECEMBER 2025	26	30	**Unit 6: Producer Behavior and Supply** Cost: Short run costs-total cost, total fixed cost, total variable cost; Average cost; Average fixed cost, averagevariable cost and marginal cost-meaning and their relationships. Revenue: total, average and marginal revenue-meaning and their relationship. Producer's equilibrium- meaning and its conditions in terms of marginal revenue-marginal cost. Supply, market supply, determinants of supply, supply schedule, supplycurve and its slope, movements along and shifts in supply curve, price elasticity of supply; measurement of price elasticity of supply-percentage-change method. **UNIT TEST-III** ***Syllabus:-Unit-5 and Unit-6***	Case study questions and competency based questions Assertion and Reason types of Questions on Producer's equilibrium. Numerical Questions on Elasticity of Supply
JANUARY 2026	25	20	**Unit 7: Forms of Market and Price Determination under Perfect Competition with simple application:** Perfect competition- Features; Determination of market equilibrium and effects of shifts in demand and supply.	**Project Work:** Effect of Price Change on a Complementary Good (taking prices from Real life visiting local market)
FEBRUARY 2026	**24**	**07**	Simple applications of demand and supply: Price ceiling, price floor. **PREPARATION OF PROJECT WORK** **UNIT TEST-IV** ***Syllabus : unit-6 and unit-7*** **REVISION**	

MARCH 2026			**REVISION** **TERM–II EXAMINATION** **(16 to 28 MARCH 2026)**	

SUGGESTED QUESTION PAPER PATTERN BY CBSE

CLASS XI ECONOMICS (030)

Marks: 80 Duration: 3 hrs

S.No	Typology of Questions	Marks	Percentage
1	Remembering and Understanding: 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	Applying: Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	18	22.5%
3	Analyzing, Evaluating and Creating: 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 XI SUBJECT: ACCOUNTANCY (055)

Part A: FINANCIAL ACCOUNTING - I (56 Marks)			
Units	Name of the Chapter/Unit	Marks	Periods
Unit-1	Theoretical Framework	12	25
Unit2.	Accounting Process	44	115
	Total	56	140
Part B: FINANCIAL ACCOUNTING – II (24 Marks)			
Unit3.	Financial Statements of Sole Proprietorship	24	60
	Total	**24**	**60**
Part-C: PROJECT WORK (20 Marks)			
	Project Work	20	20
	Total	**20**	**20**
	Grand Total(A+B+C)	**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/JUNE 2025	24	30	**Introduction to Accounting** 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. **Basic Accounting Terms** 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) **Theory Base of Accounting** Fundamental Accounting Assumptions: GAAP – Concept Basic Accounting Concepts: Business Entity, Money Measurement, Going Concern, Accounting Period	Different assignments can be given to the students to understand the topic through role play method.
			UNIT TEST-I *Syllabus:- Introduction to Accounting, Accounting Terms*	
JULY 2025	27	30	**Theory Base of Accounting** 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 (Ind AS) Goods and Service Tax (GST): Characteristics and Advantages **Unit-2: Accounting Process Recording of Business Transactions** 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 andpetty cash book Purchase Book, Sales Book, Purchase Return Book Sales Return Book, Journal Proper **Note: Including trade discount, freight and cartage Expenses for simple GST calculation**	Project, The Indian Accounting Standard can be drawn in chart Paper.

AUGUST 2025	**24**	**35**	**Ledger:** Format, Posting from Journal and Subsidiary Books, Balancing of Accounts **Bank Reconciliation Statement** Need and Preparation of Bank Reconciliation Statement **Depreciation, Provision and Reserve** Depreciation: Meaning, Features, Need, Causes, Factors Other similar terms: Depletion and Amortization 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 Treatment of disposal of asset	Quiz, Class Test, Weekly Test, Oral Test, Mind map, Case Studies, Role Play, Crossword Puzzles
			UNIT TEST- II *Syllabus: - Theory base of Accounting, Vouchers, Accounting Equations, Journal, Subsidiary Books*	
SEPTEMBER 2025	**25**	**25**	**Provision and Reserve** 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	Quiz, Class Test, Weekly Test, Oral Test, Mind map, Case Studies, Role Play, Crossword Puzzles
			TERM -I EXAMINATION (12 to 25 SEPTEMBER 2025) *Syllabus:-Introduction to Accounting to Depreciation, Provision and Reserves*	
OCTOBER 2025	**25**	**15**	**Trial Balance and Rectification of Errors** Trial Balance: Objectives, meaning and preparation Errors: Classification-Error of omission, commission, principle and compensating, their effect on Trial Balance. Detection and rectification of errors: (i) Error which do not affect trial balance (ii) Errors which affect trial balance (iii) Preparation of Suspense Account	Quiz, Class Test, Weekly Test, Oral Test, Mind map, Case Studies, Role Play, Crossword Puzzles
NOVEMBER 2025	**24**	**30**	**Financial Statement of Sole– Proprietorship** 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. Adjustment in preparation of Financial Statements with respect to Closing Stock, Outstanding Expenses, Prepaid Expenses, Accrued Income, Income Received in Advance, Depreciation.	Project, Quiz, Class Test, Weekly Test, Oral Test, Mind map, Entry card, Exit Card, Case Studies, Role Play, Crossword Puzzles

DECEMBER 2025	**26**	**20**	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. Preparation of Trading and Profit and Loss Account and Balance Sheet of a sole proprietorship with adjustment.	Project, Quiz, ClassTest, Weekly Test, Oral Test, Mind map, Entry card, Exit Card, Case Studies, Role Play
			UNIT TEST III *Syllabus: Trial Balance and Rectification of Error, Financial Statements without Adjustments*	
JANUARY 2026	**25**	**15**	**Incomplete Records** 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 2026	**24**	**20**	**PREPARATION OF PROJECT WORK** **UNIT TEST IV** *Syllabus : Financial Statement with adjustment and Incomplete Records* **REVISION**	
MARCH 2026			**REVISION** **TERM II EXAMINATION** **(16 to 28 MARCH 2026)**	

SUGGESTED QUESTION PAPER PATTERN BY CBSE

CLASS XI ACCOUNTANCY (055)

Theory: 80 Marks Time: 3hrs.
Project: 20 Marks

SN	**Typology of Questions**	Marks	Percentage
1	**Remembering and Understanding:** 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	**Applying:** Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	**19**	**23.75%**
3	**Analyzing, Evaluating and Creating:** 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 SUBJECT: BUSINESS STUDIES (054)

Units	Topics	Periods	Marks
Part A	**FOUNDATION OF BUSINESS**		
1	Evolution and Fundamentals of Business	18	16
2	Forms of Business Organization	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	
	TOTAL	**100**	**40**
Part B	**FINANCE AND TRADE**		
1	Sources of Business Finance	30	20
2	Small Business and Enterprises	16	
3	Internal Trade	30	20
4	International Business	14	
	TOTAL	**90**	**40**
Part C	**PROJECT WORK (ONE)**	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.
APRIL/JUNE 2025	24	30	**Unit. 01 – Evolution and Fundamentals of Business** History of Trade and Commerce in India: Indigenous Banking System, Rise of Intermediaries, Transport, Trading Communities, Merchant Corporations, Major Trade Centers, 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, Communication and Advertising) – Meaning Business Risk – Concept **Unit.02-Forms of Business Organizations** Sole Proprietorship-Concept, merits and limitations. Partnership-Concept, types, merits and limitation of partnership, registration of a partnershipfirm, partnership deed. Types of partners	Project, Quiz, Mind map, Class Tests, Cross word Puzzles, Case Studies, Role Play
			UNIT TEST I *Syllabus: Evolution and Fundamentals of Business, Sole Proprietorship, Partnership*	

JULY 2025	**27**	**32**	**Unit.02-Forms of Business Organizations** 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 **Unit. 03 – Public, Private and Global Enterprises** 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	
AUGUST 2025	**24**	**30**	**Unit. 04 – Business Services** 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 **Unit.05 – Emerging Modes of Business** E-business: concept, scope and benefits	Project, Quiz, Mind map, Class Tests, Cross word Puzzles, Case Studies, Role Play, Bank Visits, Display of different Cards
			UNIT TEST II *Syllabus : Joint Hindu Family Business, Cooperative Societies, Joint Stock Company, Formation of a Company; Public, Private and Global Enterprises*	
SEPTEMBER 2025	**25**	**18**	**Unit.06 – Social Responsibility of Business and Business Ethics** 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	Project, Quiz, Mind map, Class Tests, Cross word Puzzles, Case Studies, Role Play, Live Presentation of Online Transactions
			TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)	

PART B: FINANCE AND TRADE				
OCTOBER 2025	**25**	**15**	**Unit.07 –Sources of Business Finance** 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, Cross word Puzzles, Case Studies, Role Play
NOVEMBER 2025	**24**	**30**	**Unit. 08 – Small Business and Enterprises** 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) **Unit. 09 – Internal Trade** Internal trade - meaning and types services rendered by a wholesaler and a retailer	Project, Quiz, Mind map, Class Tests, Cross word Puzzles, Case Studies, Role Play
DECEMBER 2025	26	**25**	**Unit.09–Internal Trade** 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 to rural areas.	Quiz, Mind map, Class Tests, Cross word Puzzles, Case Studies, Role Play, Visit of nearest Departmental Store and Chain Store
			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	
			UNIT TEST III *Syllabus: Sources of Business Finance and Small Business and Enterprises*	
JANUARY 2026	**25**	**20**	**Unit.10 – International Trade** 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, Cross word Puzzles, Case Studies, Role Play

FEBRUARY 2026	**24**	**30**	**PREPARATION OF PROJECT WORK** **UNIT TEST IV** *Syllabus:-Internal Trade and International Trade* **REVISION**	
MARCH 2026			**REVISION** **TERM– II EXAMINATION** **(16 to 28 MARCH 2026)**	

SUGGESTED QUESTION PAPER PATTERN BY CBSE

BUSINESS STUDIES (054)

CLASS XI THEORY: 80 MARKS PROJECT: 20 MARKS

Sl.No	Typology of Questions	Marks	Percentage
1	**Remembering and Understanding:** Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers. Demonstrate understanding off acts and Ideas by organizing, comparing, translating, interpreting, giving descriptions, and stating main ideas	**44**	**55%**
2	**Applying:** Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way	**19**	**23.75%**
3	**Analyzing, Evaluating and Creating:** 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 2025-26, 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 XI SUBJECT: COMPUTER SCIENCE (083)

MAX. MARKS: 100 (70 Theory + 30 Practical) Distribution of Marks and Periods				
Unit No	**Name of The Chapter/ unit**	**Marks**	**Periods**	
1	Computer Systems and Organisation	10	10	10
2	Computational Thinking and Programming - 1	45	80	60
3	Society, Law and Ethics	15	20	--
	Total	**70**	110	70
	Internal Assessment / Practical	**30**		
	Grand Total	**100**		

MONTH.	NO. OF DAYS	NO. OF PERIODS	Weightage of Marks forUnit/ Chapter	Units/ Subunits/ Topics/ Chapters to be Covered	Details of Activity/ Practical/ Projects
APRIL/JUNE 2025	21	10T+10P	10	**Unit I: Computer Systems and Organisation:** • 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) • Types of software: System software (Operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler, and interpreter), application software • Operating System(OS): functions of the operating system, OS user interface • Boolean logic: NOT, AND, OR, NAND, NOR, XOR, NOT, truth tables and De Morgan's laws, Logic circuits • Number System: Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems • Encoding Schemes: ASCII, ISCII, and Unicode (UTF8, UTF32)	Exploring inside computer system in the computer lab. Record of the configuration of computer system used by the student in the computer lab
				UNIT TEST-I	
JULY 2025	27	26 T	45	**Unit II: Computational Thinking and Programming** - I • 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 • 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 • Knowledge of data types: Number(integer, floating point, complex), boolean, sequence(string, list, tuple), None, Mapping(dictionary), mutable and immutable data types.	**Programming in Python:** Print 'Hello World' Program. Programs involving simple data types Program to find absolute value, Program to Sort 3 nos.

AUGUST 2025	**24**	**16T+8P**		**Unit II: Computational Thinking and Programming – 1** • Operators: arithmetic operators, relational operators, logical operators, assignment operator, augmented assignment operators, identity operators (is, is not), membership operators (in, not in) • Expressions, statement, type conversion & input/output: precedence of operators, expression, evaluation of expression, python statement, type conversion (explicit & implicit conversion), accepting data as input from the console and displaying output • Errors: syntax errors, logical errors, runtime errors • Flow of control: introduction, use of indentation, sequential flow, conditional and iterative flow control	Python programs to apply different operators and types. Python programs using if, if.. else, if … elif… else. Creating python Programs Using for and While loops as Interest calculation
				UNIT TEST- II	
SEPTEMBER 2025	**25**	**10T+6P**		• Conditional statements: if, if-else, if-elif-else, flowcharts, simple programs: e.g.: absolute value, sort 3 numbers and divisibility of a number. • 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. • Strings: introduction, string operations (concatenation, repetition, membership and slicing), • 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()	Program to calculate factorial of given no., Generation of Fibonacci series etc. Implement StringFunctions using python program
TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)					

OCTOBER 2025	**25**	**08T+15P**		**Unit II: Computational Thinking and Programming – 1** • **Lists:** 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, • 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.	Different python Programs to implement List
NOVEMBER 2025	**24**	**10T+20P**		• 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. • 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.	Different python Programs to implement Tuples related methods 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.

DECEMBER 2025	**26**	**16T+4P**	**15**	**Introduction to Python modules:** • 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()). **Unit III: Society, Law and Ethics:** • Digital Footprints ● Digital Society and Netizen: net etiquettes, communication etiquettes, social media étiquettes • 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)	Generate random number using random module and implement different random functions.
				UNIT TEST- III	
JANUARY 2026	**25**	**18T**		**Unit III: Society, Law and Ethics:** • Cyber Crime: definition, hacking, eavesdropping, phishing and fraud emails, ransomware, cyber trolls, cyber bullying • Cyber safety: safely browsing the web, identity protection, confidentiality • Malware: viruses, trojans, adware • E-waste management: proper disposal of used electronic gadgets. • Information Technology Act (IT Act) • Technology and society: Gender and disability issues while teaching and using computers	
FEBRUARY 2026				**UNIT TEST- III** **REVISION**	
MARCH 2026				**REVISION** **TERM- II EXAMINATION (16 to 28 MARCH 2026)**	

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

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

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:
  - $1+x+x^2+x^3+x^4+$. ..... x^n
  - $1-x+x^2-x^3+x^4$ ..... x^n
  - $x - x^2 + x^3 - x^4 +$ ..... 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 a 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**	**-**	**-**	**-**
TOTAL		**100**	**75**	**45**	**120**

MONTH.	NO. OF DAYS	NO.OF PERIODS	Weightageof Marks forUnit/Chapte	Units/Subunits/Topics/Chapters to be Covered	Details of Activity/Practical/ Projects
APRIL/JUNE 2025	21	20T+02P	10	**UNIT 1: Introduction to Computer System** • Introduction to computer and computing: • evolution of computing devices, • Components of a computer system and their interconnections, and input/output devices. • Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery, and related security concerns. • Software: purpose and types – system and application software, generic and specific purpose software. **UNIT 2: Introduction to Python** • Basics of Python programming, • execution modes: interactive and script mode, • The structure of a program, indentation	Exploring computer system parts and recording the configuration Activities as specified in the NCERT book.
				UNIT TEST -I	
JULY 2025	27	17T+6P	25	**Unit 2: Introduction to Python** (Continued.) • Indentation, identifiers, keywords, constants, variables. • types of operators, precedence of operators, • Data types, mutable and immutable data types, statements, expressions, evaluation. • Comments, input and output statements, data type conversion, debugging. (repeated topics removed) • Control Statements: if-else, if-elif-else, while loop, for loop	• Executing Python program • Chart on Operator • Chart on Data Types
AUGUST 2025	24	04T+10P		**Lists:** list operations - creating, initializing, traversing and manipulating lists, list methods and built-in functions – len(),list(),append(),insert(), count(), index(),remove(), pop(), reverse(), sort(), min(),max(),sum().	Practical programs as specified in the list. Activities as specified in the NCERT book

				UNIT TEST -II	
SEPTEMBER 2025	**25**	**04T+10P**		**Dictionary:** concept of key-value pair, creating, initializing, traversing, updating and deleting elements, dictionary methods and built-in functions – dict(), len(), keys(), values(), items(), update(), del, clear()	Practical programs as specified in the list. Activities as specified in the NCERT book.
TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)					
OCTOBER 2025	**25**	**9T+2P**	**30**	**Unit 3: Database concepts and the Structured Query Language** Database Concepts: Introduction to database concepts and its need, Database Management System. Relational data model: Concept of the domain, tuple, relation, candidate key, primary key, alternate key. 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.	SQL commands as specified in the list. Activities as specified in the NCERT book.
NOVEMBER 2025	**24**	**7T+10P**		**Unit 3: Database concepts and the Structured Query Language (Continued……)** **Data Definition:** • CREATE DATABASE • CREATE TABLE, • DROP, ALTER Data Query: • SELECT, FROM, WHERE with relational operators, • BETWEEN,	SQL commands as specified in the list. Activities as specified in the NCERT book.
DECEMBER 2025	**26**	**7T+5P**		**Unit 3: Database concepts and the Structured Query Language (Continued……)** • Logical operators, • IS NULL, • IS NOT NULL • Data Manipulation: • INSERT, DELETE,UPDATE	SQL commands as specified in the list. Activities as specified in the NCERT book.
				UNIT TEST -III	

JANUARY 2026	**25**	**7T**	**05**	**Unit 4: Introduction to the Emerging Trends**: • Artificial Intelligence, • Machine Learning, • Natural Language Processing, • Immersive experience (AR, VR), • Robotics, Big data, and its characteristics, • Internet of Things (IoT), • Sensors, Smart Cities, • Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); • Grid Computing, • Blockchain technology.	Activities as specified in the NCERT book.
FEBRUARY 2026				**REVISION** **UNIT TEST -IV**	
MARCH 2026				**REVISION** **TERM- II EXAMINATION (16 to 28 MARCH 2026)**	

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
	Total	30

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 Practices - Text book for class - XI (ISBN- 978-93-5292-148-5)

NAVODAYA VIDYALAYA SAMITI

CLASS-XI **SUBJECT: BIO TECHNOLOGY-(045)**

Time: 3 hrs **Max.Marks70+30**

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
	Total	**100**

Month	No. ofDays	No. of Periods	Units/Subunits/Chapters/topics/ to be covered	Details of practical/ projecttobe given	SPOTTERS /ACTIVITIES	Unit tests/ Assign ments
APRIL/JUNE 2025	24	22+6=28	**Unit-I Biotechnology: An overview** **Chapter 1: Biotechnology: An Overview** Historical Perspectives, Technology and Applications of Biotechnology, Global market and Biotech Products.	1. Preparation of buffers and pH determination.		
			UNIT TEST-I			
JULY 2025	27	26+8=34	**Unit-II Molecules of Life** **Chapter 1: Biomolecules: Building Blocks** Building Blocks of Carbohydrates - Sugars and their Derivatives, Building Blocks of Proteins - Amino Acids, Building Blocks of Lipids - Simple Fatty Acids.	2.Sterilization techniques	❖ Test for the presence of sugar. ❖ Test for the presence of protein. ❖ Test for the presence of fat. ❖ Detection of amino acids by using chromatography ❖ Study of the enzymatic activity of salivary amylase.	
AUGUST 2025	24	22+6=28	**Chapter 1: Biomolecules Building Blocks** Building Blocks of Lipids - Glycerol and Cholesterol. Building Blocks of Nucleic Acids – Nucleotides. **Chapter 2: Macromolecules: Structure & Function** Carbohydrates - The Energy Givers, Proteins-The Performers.	3. Preparation of bacterial growth medium	Observation of Drosophila . To identify the sex. . To study contrasting phenotypictraits. . To study the karyotype of Drosophila.	
			UNIT TEST-II			

SEPTEMBER 2025	25	17+5=22	**Chapter 2: Macromolecules: Structure & Function** Enzymes- The Catalysts, Lipids and Bio membranes-TheBarriers, Nucleic Acids - The Managers.	4. Cell counting	• List out the multipleallelic traitsinhuman beings. • Study the %age of recombination of an easily identifiabletraitin a colony of Drosophila.	
			TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)			
OCTOBER 2025	25	18+6=24	**Unit-III Genetics and Molecular Biology** **Chapter 1: Concepts of Genetics** Historical Perspective, Multiple Alleles, Linkage and Crossing Over, Genetic Mapping.			
NOVEMBER 2025	24	20+6=26	**Chapter 2:Genes and Genomes : Structure and Function** 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.	5. Sugar Estimation using Di Nitro Salicylic Acid test (DNS test)	Isolation of DNA from available plant and animal material.	
DECEMBER 2025	17	17+5=22	**Unit IV: Cells and Organisms** **Chapter1:The Basic Unit of Life** 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.	
			UNIT TEST-III			

JANUARY 2026	15	15+4=19	**Chapter 2 :Cell Growth and Development** 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 2026	21	21+6=27	Practical Exam **REVISION**			
			UNIT TEST -IV			
MARCH 2026			**TERM-II EXAMINATION** **(16 to 28 MARCH, 2026)**			

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 DiNitro Salicylic Acid test (DNS test)
6. Assay foramylase enzyme
7. Protein estimation by biuret method

SPLIT UP OF SYLLABUS FOR

CLASS XII

NAVODAYA VIDYALAYA SAMITI

CLASS: XII SUBJECT: ENGLISH CORE (301)

Unit No	Name of The Chapter/unit	Marks
1	**Reading skills–** • unseen passages to assess comprehension • unseen case–based passage	**20**
2	**Creative writing skills** • **Notice** • **Invitation** • **Letter writing** • **Report writing and Article writing**	**20**
3	**Flamingo** **Vistas**	**40**
	Total	**80**
	Internal Assessment	**20**
	Grand Total	**100**

MONTH	NO OF DAYS	Main Topic and Sub-Topics to be Covered		Activities/Projects/Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
		Flamingo/Vistas	**Reading &Advance Writing Skills**	
APRIL/JUNE 2025	**24**	• The Last Lesson (Prose) • My Mother at Sixty Six (Poem) • The Third Level (Prose) • The Tiger King (Prose)	Unseen Passage. Notice and Invitation & Replies (acceptance and regrets) ASL Project- Imposed Vs self-imposed linguistic Chauvinism in the present scenario of academic life in the light of 'The Last lesson'. (Objective - focuses on the necessity to take steps to protect the regional languages from the influence of foreign language) 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	Reading Section: Practice Unseen comprehension. Writing Section : *Short writing task – Notice Notice for Meeting, Notice for events like Competition/Tour/ Celebration/ Annual Sports/ Cultural events etc. Notice for Lost and Found. *Formal/Informal Invitation and Replies up to 50 words. Practice work for invitation and Notice. Students may be asked to prepare PPTs of Formal and Informal invitation. 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. *Collect the data regarding government and NGOs activities to save tigers in India with the help of internet and library. Assessment Tool: Presentation by the students.
	UNIT TEST -I			
JULY 2025	**27**	• Lost Spring (Prose) • Keeping Quiet • (poem) • Deep water (Prose) • Journey To the End of The Earth (Prose)	Unseen passage to assess Comprehension, interpretation and inference. Unseen passages; case- based passage with verbal/ visual inputs like statistical data, charts etc.	Activities; • Practice on Unseen passage to assess comprehension, interpretation and inference • Practice on Unseen case- based passage with verbal/visual inputs like statistical data, charts etc. • Discussion on Health hazards of Child Labour. • Poster on Child Labour. • 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.

				• Article writing on 'Child Labour' • Discussion on Question Answer. • 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
AUGUST 2025	**24**	The Rattrap (Prose) A Thing Of Beauty (Poem) Indigo (Prose) Poets and Pancakes (Prose)	• Letter writing: Letter Based On Verbal/Visual Input. Application for job with bio data or resume. Letter to the Editor giving suggestion or opinion on issues of public interest.	Activities ; • 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. • Collect letters to Editors from the columns of newspapers. Understand 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 • Discussion on Question Answer Assessment Tool: • Oral Test
	UNIT TEST -II			
SEPTEMBER 2025	**25**		Article / Report writing, descriptive and analytical in nature based on verbal inputs.	1) Practice of Speaking and Listening skills. 2) Students may be asked to read the Editorial columns of newspapers. Visual input/ verbal inputs may be given for writing letter to the Editor. 3) Write a report on the village market and super markets.

		The Enemy (Prose) A Roadside Stand (Poem)		4) Write your point of you on the decision taken by Dr. Sadao 5) Write imaginary dialogues between Dr. 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
TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)				
OCTOBER 2025	**25**	• The Interview (prose) • Aunt Jennifer's Tigers (Poem) • Going Places (Prose) • On the face of It. (Prose)	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 as described in the poem Aunt Jennifer's tigers. • Write an essay on the topic Fortune favours the Brave • Project work to be assigned.
NOVEMBER 2025	**24**	• Memories of Childhood	Practice and revision of writing skills ASL Practice. Discussion and practice of unseen passages. Practice of Notice, Invitation, Letters and Report writing. Project work submission	• 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 • Discussion on the stories of minority heroes may be discussed
		PRE-BOARD I (19 to 29 NOVEMBER 2025)		
DECEMBER 2025		REVISION **PRE-BOARD II**		
JANUARY 2026		REVISION		
FEBRUARY/ MARCH 2026		**CBSE EXAMINATION**		

<u>नवोदय विद्यालय समिति</u>

CLASS: XII **SUBJECT: हिन्दी (302)**

इकाई सं	इकाई / पाठ का नाम	उप–भारांक	भारांक
	खंडक (अपठित गद्यांश एवं पद्यांश के प्रश्न)		
1.	1) एक अपठित गद्यांश (अधिकतम 300 शब्दों का) बहुविकल्पीय प्रश्न (1 अंक x 3 प्रश्न) अति लघूत्तारात्मक प्रश्न (1 अंक x 1 प्रश्न) लघूत्तारात्मक प्रश्न (2 अंक x 3 प्रश्न) 2) एक अपठित पद्यांश (अधिकतम 150 शब्दों का) बहुविकल्पीय प्रश्न (1 अंक x 3 प्रश्न) अति लघूत्तारात्मक प्रश्न (1 अंक x 1 प्रश्न) लघूत्तारात्मक प्रश्न (2 अंक x 2 प्रश्न)	10 8	**18**
	खंड-ख (अभिव्यक्ति और माध्यम के प्रश्न)		
2.	**पाठ्य पुस्तक**, **अभिव्यक्ति और माध्यम से सृजनात्मक लेखनऔर व्यावहारिक लेखन पाठ संख्या** 3,4,5,11,12 **तथा** 13 **पर आधारित ।** 1.दिये गए चार अप्रत्याशित विषयों से किसी एक विषय पर लगभग 120 शब्दों में रचनात्मक लेखन (6अंक x 1 प्रश्न) **2.a**अभिव्यक्ति और माध्यम के पाठ संख्या **3,4,5,11,12** तथा **13** पर आधारित पाँच प्रश्नों में से कोई चार प्रश्न। (लगभग 40 शब्दों में) (2अंक x 4 प्रश्न) **2.b** अभिव्यक्ति और माध्यम के पाठ संख्या **3,4,5,11,12** तथा **13** पर आधारित दो प्रश्नों में से कोई एक प्रश्न। (लगभग 80 शब्दों में)(4 अंक x 2 प्रश्न)	6 8 8	**22**
	खंड-ग (पाठ्य पुस्तक आरोह 2 एवं वितान 2 के प्रश्न)		
3	**पाठ्य पुस्तक 'आरोह भाग -2' से बहुविकल्पी प्रश्न** • पठित काव्यांश पर पाँच बहुविकल्पी प्रश्न (1 अंक x 05 प्रश्न) • पठित गद्यांश पर पाँच बहुविकल्पी प्रश्न (1 अंक x 05 प्रश्न)	5 5	**10**

4	**पाठ्य <u>पुस्तक</u> आरोह भाग-2** • काव्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर (लगभग 60 शब्दों में) (3 अंक x 2 प्रश्न) • काव्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर (लगभग 40 शब्दों में) (2 अंक x 2 प्रश्न) • गद्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर (लगभग 60 शब्दों में) (3 अंक x 2 प्रश्न) • गद्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर (लगभग 40 शब्दों में) (2अंक x 2 प्रश्न)	6 4 6 4	**20**
5	**पूरक पाठ्य पुस्तक 'वितान भाग -2' से** निर्धारित पाठों पर आधारित 3 मे से 2 निबंधात्मक प्रश्न (लगभग 100 शब्दों में)(5 अंक x 2 प्रश्न)	10	**10**
6.	• श्रवण एवं वाचन | • परियोजना कार्य |	10 10	**20**
	कुल	100	**100**

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 द्वाराप्रकाशित

हटाए गए पाठ :पद्य खंड: सहर्ष स्वीकारा है।**,** गज़ल(फिराक गोरखपुरी)**,**

गद्य खंड: चार्ली चाप्लिन यानी हम सब**,** नमक ।

वितान : ऐन फ्रैंक **–** डायरी के पन्ने ।

(सी बी एस ई पाठ्यक्रम **2025-26** पर आधारित)

पाठ्यक्रम विभाजन – सत्र 2025-26 (हिंदी आधार – कक्षा बारहवीं ।)

माह	दिन	पाठ / उप-पाठ का नाम			क्रिया–कलाप / परियोजना कार्य
		आरोहभाग –2	वितान भाग – 2	अभिव्यक्ति और माध्यम/ रचनात्मक लेखन	
अप्रैल/ जून, 2025	24	**गद्य खंड:** भक्तिन – महादेवी वर्मा **पद्य खंड:** ○ आत्मपरिचय ○ एक गीत – हरिवंशराय बच्चन	सिल्वर वेडिंग -मनोहर श्याम जोशी	विभिन्न माध्यमों केलिए लेखन	पीढ़ी का अंतराल वाद-विवाद
		प्रथम इकाई परीक्षा			
जुलाई 2025	26	**गद्य खंड:** ○ बाज़ार दर्शन – जैनेन्द्र कुमार ○ काले मेघा पानी दे- धर्मवीर भारती **पद्य खंड :** • पतंग - आलोक धन्वा • कविता के बहाने – कुंवर नाराय • बात सीधी थी - कुवंर नारायण	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 2025	25	**गद्य खंड:** ○ पहलवान की ढोलक – - फणीश्वरनाथ रेणु **पद्य खंड:** ○ कैमरे में बंद अपाहिज - रघुवीर सहाय ○ उषा - शमशेर बहादुर सिंह	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।
		द्वितीय इकाई परीक्षा			

सितंबर 2025	17	**पद्य खंड:** • बादल राग - सूर्यकांत त्रिपाठी 'निराला' • कवितावली - तुलसीदास • लक्ष्मण मूर्छा एवं राम का विलाप- तुलसीदास **गद्य खंड:** • शिरीष के फूल – हज़ारी प्रसाद द्विवेदी	अतीत में दबे पांव – ओम थानवी	पुनरावृत्ति	तुलसीदास के साहित्य में प्रयुक्त छंद व काव्य रूपों की सूची बनाना।
	प्रथम सत्रांत परीक्षा (12-25 सितंबर 2025)				
अक्तूबर 2025	21	**पद्य खंड:** • रुबाइयां- फिराक गोरखपुरी • छोटा मेरा खेत-उमाशंकर जोशी पुनरावर्तन		पत्रकारीय लेखन के विभिन्न रूप और लेखन प्रक्रिया ।	विद्यार्थियों द्वारा देखे गए किसी ऐतिहासिक जगह की परिचर्चा।
नवंबर 2025	20	**गद्य खंड :** • श्रम विभाजन और जाति प्रथा • मेरी कल्पना का आदर्श समाज- भीमराव अम्बेडकर **पद्य खंड:** बगुलों के पंख-उमाशंकर जोशी		विशेष लेखन - स्वरूप और प्रकार ।	अंबेडकर की कल्पना में आदर्श समाज वाद-विवाद ।
		प्रथम प्री-बोर्ड (19-29 नवंबर 2025)			
दिसंबर 2025		पुनरावृत्ति **प्रीबोर्ड द्वितीय**			
जनवरी 2026		पुनरावृत्ति			
फरवरी/ मार्च 2026		**वार्षिक परीक्षा**			

NAVODAYA VIDYALAYA SAMITI

CLASS: XII **SUBJECT: MATHEMATICS (041)**

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
	Internal Assessment (20Marks) 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) 2.Assessment of the activity performed during the year end test (03 Marks) 3.Viva-voce (02 Marks)		20
	Grand Total		**100**

MONTH	No. of Days	Main topic and sub-topics to be covered	Activities/ Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)	
APRIL/JUNE 2025	21	**UNIT II ALGEBRA** **MATRICES:** Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. Non-commutativity of multiplication of matrices and existence of non-zero matrices 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). **DETERMINANTS:** Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and applications of determinants in finding the area of a triangle. Ad joint 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.	**Activity -1** Word problems based on matrices. Formatting of matrix. Finding the solution by using matrix method. Activity -2 To demonstrate a function which is one - one not onto	UNIT TEST –I
JULY 2025	**27**	**UNIT I (RELATIONS AND FUNCTIONS)** **RELATIONS AND FUNCTIONS** Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions. **INVERSE TRIGONOMETRIC FUNCTIONS:** Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions. **UNIT III-CALCULUS** **CONTINUITYAND DIFFERENTIABILITY:** 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 -3To explore the principal value of the function $\sin^{-1}x$ using a unit circle. 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	

AUGUST 2025	**21**	**APPLICATIONS OF DERIVATIVES:** Applications of derivatives: rate of change of quantities, increasing/decreasing functions, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real-life situations). **INTEGRALS:** 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. $\int \frac{dx}{x^2 \pm a^2}, \int \frac{dx}{\sqrt{x^2 \pm a^2}}, \int \frac{dx}{\sqrt{a^2 - x^2}}, \int \frac{dx}{ax^2 + bx + c}, \int \frac{dx}{\sqrt{ax^2+bx+c}}$ $\int \frac{px + q}{ax^2 + bx + c} dx, \int \frac{px + q}{\sqrt{ax^2+bx+c}} dx, \int \sqrt{a^2 \pm x^2}\, dx, \quad \int \sqrt{x^2 - a^2} dx$ $\int \sqrt{ax^2 + bx + c} dx, \int (px + q)\sqrt{ax^2 + bx + c}\, dx$ Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals.	Activity -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-II**
SEPTEMBER 2025	**12**	**APPLICATIONS OF THE INTEGRALS:** Applications in finding the area under simple curves, especially lines, circles/parabolas/ellipses (in standard form only). **DIFFERENTIAL EQUATIONS:** Definition, order and degree, general and particular solutions of a differential equation. Solution of differential equations by method of separation of variables. Solutions of homogeneous differential equations of first order and first degree. 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.	
		TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)		

OCTOBER 2025	**18**	**UNIT V** **LINEAR PROGRAMMING:** 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). **UNIT:IV** **VECTOR ALGEBRA:** 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. **THREE-DIMENSIONAL GEOMETRY:** 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.	Activity -8 To verify geometrically that $\bar{c} \times (\bar{a} + \bar{b}) = \bar{c} \times \bar{a} + \bar{c} \times \bar{b}$ Activity -9 To demonstrate the shortest distance between two lines.	
NOVEMBER 2025	**13**	**PROBABILITY:** Conditional probability, multiplication theorem on probability, independent events, total probability, Bayes' theorem, Random variable and its probability distribution, mean of random variable.	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.	
		PRE-BOARD – I (19 to 29 NOVEMBER 2025)		
DECEMBER 2025		**REVISION** **PRE-BOARD – II**		
JANUARY 2026		**REVISION**		
FEBRUARY / MARCH 2026		**REVISION** **CBSE EXAMINATION**		

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 (042)**

Unit No	Name of the Chapter / unit	Marks
1	Electrostatics	16
	Chapter-1: Electric charges and Fields	
	Chapter -2:Electrostatic Potential and Capacitance	
2	Current Electricity	
	Chapter -3: Current Electricity	
3	Magnetic effects of current and Magnetism	17
	Chapter-4: Moving Charges and Magnetism	
	Chapter-5: Magnetism and Matter	
4	Electromagnetic Induction and Alternating Currents	
	Chapter-6: Electromagnetic Induction	
	Chapter-7:Alternating Currents	
5	Electromagnetic waves	18
	Chapter-8: Electromagnetic Waves	
6	Optics	
	Chapter-9: Ray Optics and Optical Instruments	
	Chapter-10: Wave Optics	
7	Dual Nature of Radiation and Matter	12
	Chapter-11: Dual Nature of Radiation and Matter	
8	Atoms and Nuclei	
	Chapter-12: Atoms	
	Chapter-13: Nuclei	
9	Electronic Devices	7
	Chapter-14: semiconductor Electronics: Materials, Devices and simple circuits	
	Total	70
	Practical/Internal Assessment	30
	Grand Total	**100**

MONTH	NO. OF DAYS	Weightage of Marks for the Unit/ Chapter	Units/ Subunits/ Topics/ Chapters to be Covered	Details of Activity/ Practical/ Projects to be given	Unit Tests / Assignment
APRIL/ JUNE 2025	24	16	**Unit I: Electrostatics:** **Chapter–1: Electric Charges and Fields** Electric charges, Conservation of charge, Coulomb's law-force between two point charges, forces between multiple charges; superposition principle and continuous charge distribution. 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). **Chapter–2: Electrostatic Potential and Capacitance** Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two-point charges and of electric dipole in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarization, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formulae only **Unit II: Current Electricity:** **Chapter–3: Current Electricity** 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, electrical resistivity and conductivity, temperature dependence of resistance, Internal resistance of a cell, potential difference and emf of a cell	**Experiments: 1&2** (1. Determine Resistivity of wires using V-I curve 2. Determine the Resistance of a given wire using Meter bridge) **Activity:1** To assemble the house hold circuit comprising 3 bulbs, 3 switches, a fuse and a power source	**Assignment - 1** (Related to Electrostatics)
			UNIT TEST-1		

JULY 2025	27	17	combination of cells in series and in parallel, Kirchhoff's rules, Wheatstone bridge **Unit III: Magnetic Effects of Current and Magnetism** **Chapter–4: Moving Charges and Magnetism** 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. 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	Experiments: 3&4 3. Verify the laws of combination of R's in series or Parallel using Meter bridge 4. Determine the resistance of a galvanometer by half deflection method and to find its figure of merit Activity:2 To study the variation of potential drop with length of a wire for a steady current	Assignment-2 Based on Current Electricity

AUGUST 2025	**24**		**Unit IV: Electromagnetic Induction and Alternating Currents** **Chapter–6: Electromagnetic Induction**; Faraday's laws, induced EMF and current; Lenz's Law, Self and mutual induction **Chapter–7: Alternating Current:** Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance; LCR series circuit (phasors only), resonance. power in AC circuits, power factor, wattles current. AC generator, Transformer **Unit V: Electromagnetic waves** **Chapter–8: ElectromagneticWaves**Basicideaofdisplacement Current, Electromagnetic waves, their characteristics, their transverse nature (qualitative idea only) Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gammarays) including elementary facts about their uses.	**Experiments: 5&6** (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) **Activity: 3&4** 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	**Assignment-3** (Based on Magnetism)
			UNIT TEST-II		
SEPTEMBER 2025	**25**	**18**	**Unit VI: Optics** **Chapter–9:** Ray Optics and Optical Instruments Ray Optics: 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	**Experiment:7&8** 7. Find the focal length of a convex lens by plotting u-v or 1/u -1/v graph 8. Find the focal length of a concave lens using convex lens – contact method (As per the availability of apparatus teachers can arrange other experiments from the list given by CBSE) **Activities: 5** Observe the diffraction of a single slit	**Assignment -4:** Based on optics
TERM I EXAMINATION- (12 to 25 SEPTEMBER 2025) Syllabus is upto **Electromagnetic Waves**					

OCTOBER 2025	**25**	**12**	**Chapter–10: Wave optics:** Wave front and Huygen's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygen's principle. Interference, Young's double slit experiment and expression for fringe width (No derivation final expression only), coherent sources and sustained interference of light, diffraction due to a single slit, width of central maxima (qualitative treatment only). **Unit VII: Dual Nature of Radiation and MatterDual Nature of Radiation and Matter** **Chapter–11: Dual nature of radiation:** Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light. Experimental study of photoelectric effect. Matter waves-wave nature of particles, de-Broglie relation. **Unit VIII:AtomsAndNuclei** **Chapter–12: Atoms:** Alpha-particles cattering experiment; Rutherford's model of atom;	**Activity:6** Observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab	
NOVEMBER 2025	**24**	**07**	Bohr model of hydrogen atom, Expression for radius of nth possible orbit, velocity and energy of electron in this orbit, of hydrogen line spectra (qualitative treatment only). **Chapter–13: Nuclei**: Composition and size of nucleus, nuclear force Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion. **Unit IX: Electronic Devices** **Chapter–14: Semiconductor Electronics: Materials, Devices and Simple Circuits:** Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Intrinsic and extrinsic semiconductors- p and n type, p-n junction Semiconductor diode - I-V characteristics in forward and reverse bias, application of junction diode –diode as a rectifier.	**Project work**: From the given list of CBSE Completion of left over practicals & Activities	
			PRE-BOARD -I **(19 to 29 NOVEMBER 2025)**		
DECEMER 2025			**REVISION** **PRE-BOARD -II**		

JANUARY 2026	**REVISION CBSE PRACTICAL EXAMINATION**		
FEBRUARY/ MARCH 2026	**REVISION CBSE EXAMINATION**		

PRACTICALS

Total Periods 60

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

1. Record of at least 8 Experiments [with 4 from each section], to be performed by the students.
2. Record of at least 6 Activities [with 3 each from section A and section B], to be performed by the students.
3. 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	30marks

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

d. To determine resistance of a galvano meter by half-deflection method and to find its figure of merit.

e. 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

f. To find the frequency of AC mains with a Sono meter.

Activities

1) To measure the resistance and impedance of an inductor with or without iron core.
2) To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multi meter.
3) To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source.
4) To assemble the components of a given electrical circuit.
5) To study the variation in potential drop with length of a wire for a steady current.
6) 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

1. To find the value of v for different values of u in case of a concave mirror and to find the focal length.
2. To find the focal length of a convex mirror, using a convex lens.
3. To find the focal length of a convex lens by plotting graphs between u and v or between 1/u and 1/v.
4. To find the focal length of a concave lens, using a convex lens.
5. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
6. To determine refractive index of a glass slab using a travelling microscope.
7. To find the refractive index of a liquid using convex lens and plane mirror.
8. To find the refractive index of a liquid using a concave mirror and a plane mirror.
9. To draw the I-V characteristic curve for a p-n junction diode in forward and reverse bias.

Activities

1. To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items.
2. 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.
3. To study effect of intensity of light (by varying distance of the source) on an LDR.
4. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.
5. To observe diffraction of light due to a thin slit.
6. 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).
7. 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 ofa variation in
3. the power of the incandescent lamp, used to 'illuminate' the LDR (keeping all the lamps at a fixed distance).
4. the distance of a incandescent lamp (of fixed power) used to 'illuminate' the LDR.
5. To find the refractive indices of (a) water (b) oil (transparent) using a plane mirror, an equi convex lens (made from a glass of known refractive index) and an adjustable object needle.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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 assessmentin practical (Allexperiments)

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, Lechlanche 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 (one or 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

1. To determine the resistance per cm of a given wire by plotting a graph between voltage and current.
2. To verify the laws of combination (series/parallel combination) of resistances by Ohm's law.
3. To find the resistance of a given wire / standard resistor using a meter bridge.
4. To determine the resistance of a galvanometer by half deflection method.
5. To identify a resistor, capacitor, inductor and diode from a mixed collection of such items.
6. To observe the difference between
    a. a convex lens and a concave lens
    b. a convex mirror and a concave mirror and to estimate the likely difference between the power of two given convex /concave lenses.
7. To design an inductor coil and to know the effect of
    a. change in the number of turns
    b. Introduction of ferromagnetic material as its core material on the inductance of the coil.
8. 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,ClassXI,Part-IandII,PublishedbyNCERT.
2. Physics,ClassXII,Part-IandII,PublishedbyNCERT.
3. LaboratoryManualofPhysicsforclassXIIPublishedbyNCERT.
4. The list of other related books and manuals brought out by NCERT(considermultimediaalso).

Note: The content indicated in NCERT textbooks as excluded for the year 2025-26 is not to be tested by schools and will not be assessed in the Board examinations 2025-26.

NAVODAYA VIDYALAYA SAMITI

CLASS: XII **SUBJECT: CHEMISTRY (043)**

Unit No	Name of The Chapter/ unit	Marks
1	Solutions	7
2	Electrochemistry	9
3	Chemical kinetics	7
4	d and f block elements	7
5	Coordination compounds	7
6	Haloalkanes and Haloarenes	6
7	Alcohols, Phenols and Ethers	6
8	Aldehydes, Ketones and Carboxylic acids	8
9	Amines	6
10	Biomolecules	7
	Total	**70**
	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
Total	30 Marks

MONTH	NO OF DAYS	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)	Unit Test / Term / Pre-Board/ Annual Exam
APRIL / JUNE 2025	24	7 9	**Unit I:Solutions** 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. **Unit II:Electrochemistry** 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.	1. Determination of concentration/ molarity of $KMnO_4$ 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). 2. Variation of cell potential in $Zn/Zn^{2+}//Cu^{2+}/Cu$ with change in concentration of electrolytes ($CuSO_4$ or $ZnSO_4$) at room temperature. 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.	
			UNIT TEST I		

JULY 2025	27	15 7 7	**Unit III:Chemical Kinetics** Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant, 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. **Unit IV: d and f Block Elements** General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first-row transition metals – metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation, preparation and properties of $K_2Cr_2O_7$ and $KMnO_4$. Lanthanoids – Electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction and its consequences. Actinoids - Electronic configuration, oxidation states and comparison with lanthanoids.	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_3) and Sodium Sulphite: (Na_2SO_3) using starch solution as an indicator (clock reaction). 5. Qualitative analysis Determination of one anion and one cation in a given salt (03 salts per month or more) Cation: Pb^{2+}, Cu^{2+} As^{3+}, Al^{3+}, Fe^{3+}, Mn^{2+}, Zn^{2+}, Ni^{2+}, Ca^{2+}, Sr^{2+}, Ba^{2+}, Mg^{2+}, NH_4^+ Anions: CO_3^{2-}, S^{2-}, SO_3^{2-} ,NO_2^{-1}, SO_4^{2-} , Cl^{-1} , Br^{-1} , I^{-1} , PO_4^{3-} , $C_2O_4^{2-}$, CH_3COO^{-1} , NO_3^{-1} (Note: Insoluble salts excluded)	

AUGUST 2025	**24**	**07** **06**	**Unit V: Coordination Compounds** 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). **Unit VI: Haloalkanes and Haloarenes.** **Haloalkanes:** Nomenclature, nature of C–X bond, physical and chemical properties, optical rotation mechanism of substitution reactions. **Haloarenes:** 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.	6. Preparation of Inorganic Compounds Preparation of double salt of Ferrous Ammonium Sulphate or Potash Alum. Preparation of Potassium Ferric Oxalate. 7. Tests for the functional groups present in organic compounds: Unsaturation, alcoholic, phenolic, aldehydic, ketonic, groups.	
			UNIT TEST II		
SEPTEMBER 2025	**15**	**06** **08**	**Unit VII: Alcohols, Phenols and Ethers** **Alcohols:** Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only), identification of primary, secondary and tertiary alcohols, mechanism of dehydration, uses with special reference to methanol and ethanol. **Phenols:** Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols. **Ethers:** Nomenclature, methods of preparation, physical and chemical properties, uses.	8. Tests for the functional groups present in organic compounds: Carboxylic and amino (Primary) groups. 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).	
			TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)		

OCTOBER 2025	**25**	**06**	**Unit VIII: Aldehydes, Ketones and Carboxylic Acids** Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties, mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes, Uses. Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses **Unit IX: Amines** **Amines:** Nomenclature, classification, structure, methods of preparation, physical properties and Identification. **Diazonium salts:** Preparation, chemical reactions and importance in synthetic organic chemistry.	10. Any one of the following experiments: (a) Enthalpy of dissolution of copper sulphate or potassium nitrate. (b) Enthalpy of neutralization of strong acid (HCl) and strong base (NaOH). (c) Determination of enthalpy change during interaction (Hydrogen bond formation) between acetone and chloroform.	
NOVEMBER 2025	**24**	**7**	**Unit X: Biomolecules Carbohydrates** 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.	**Investigatory Project**
			PRE-BOARD I **(19 to 29 NOVEMBER 2025)**		
DECEMBER 2025			**REVISION** **PRE-BOARD-II**		
JANUARY 2026			**REVISION** **CBSE PRACTICAL EXAMINATION**		
FEBRUARY/ MARCH 2026			**REVISION** **CBSE EXAMINATION**		

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

NAVODAYA VIDYALAYA SAMITI

CLASS: XII SUBJECT: BIOLOGY (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.

COURSE STRUCTURE CLASS XII (THEORY)

Time: 3 Hours **Max.Marks:70**

Unit No	Title	Marks
VI	Reproduction	**16**
VII	Genetics and Evolution	**20**
VIII	Biology and Human Welfare	**12**
IX	Biotechnology and its Applications	**12**
X	Ecology and Environment	**10**
	Total	**70**

MONTH	NO OF DAYS	Main Topic and Sub-Topics to be Covered	Activities/ Projects/ Practical Experiments to be Held
APRIL / JUNE 2025	24	**Unit VI- Reproduction:** **<u>Sexual Reproduction in Flowering Plants</u>**: 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, poly embryony; Significance of seed dispersal and fruit formation.(07) **Human Reproduction:** Male and female reproductive systems; microscopic anatomy of testis and ovary; gametogenesis - spermatogenesis and oogenesis; menstrual cycle; fertilization, embryo development up to blastocyst formation, implantation; pregnancy and placenta formation (elementary idea); parturition (elementary idea); lactation (elementary idea). (10) **Reproductive health:** Need for reproductive health and prevention of Sexually Transmitted Diseases (STDs); birth control - need and methods, contraception and medical termination of pregnancy (MTP); amniocentesis; infertility and assisted reproductive technologies - IVF, ZIFT, GIFT (elementary idea for general awareness). (6)	**Experiments:** 1. Study of pollen germination on a cavity slide **Spotting:** 1. Study of flowers adapted to pollination 2. Exercise on Controlled pollination 3. Pollen germination on stigma through a permanent slide or scanning electron micrograph. Olabs video (<u>https://youtu.be/4wx3d02eib4</u>) (3) 1. Study and identify stages of gamete development i.e. T.S. of testis, T.S. of ovary through permanent slides. Olabs simulation https://bit.ly/3YUWOaU 2. Study of meiosis through permanent slides 3. Study of blastula through permanent slide Olabs simulation <u>https://bit.ly/3S04eaBMay</u> (4)
		UNIT TEST-I	

JULY 2025	**27**	**Unit VII - Genetics and Evolution** **Heredity and variation:** Mendelian inheritance; deviations from Mendelism – incomplete dominance, co-dominance, multiple alleles and inheritance of blood groups, pleiotropy; elementary idea of polygenic inheritance; chromosome theory of inheritance; chromosomes and genes; Sex determination - in humans, birds and honeybee; linkage and crossing over; sex-linked inheritance - haemophilia, colour blindness; Mendelian disorders in humans - thalassemia; chromosomal disorders in humans; Down's syndrome, Turner's and Klinefelter's syndromes. (12) **Molecular basis of Inheritance:** 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. (14) **Evolution Origin of life:** Biological evolution and evidences for biological evolution (paleontology, 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. (10)	**Experiments:** **1**. Prepare a temporary mount of onion root tip to study mitosis. Olabs video https://youtu.be/N- **Spotting:** **1**. Study of Mendelian inheritance using seeds of different colours of any plant. Olabs simulation https://bit.ly/3S4laMX 2. Study of prepared pedigree charts. Olabs ZZ simulation https://bit.ly/3k5bKV1 (3)

AUGUST - 2025	**24**	**Unit VIII - Biology and Human Welfare** **Health and disease Pathogens**: Parasites causing human diseases (malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ringworm) and their control; Basic concepts of immunology - vaccines; cancer, HIV and AIDS; Adolescence - drug and alcohol abuse. (10) **Microbes in human welfare:** Microbes in food processing, industrial production, sewage treatment, energy generation and microbes as bio-control agents and bio-fertilizers. Antibiotics; production and judicious use. (6) **Unit IX –** **Biotechnology - Principles and Processes**: Genetic Engineering (Recombinant DNA Technology). (10)	**Spotting:** 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.(3) **Experiments:** Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc. (1)
		UNIT TEST-II	
SEPTEMBER 2025	**25**	**Biotechnology and its Applications:** 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. (13)	
		TERM I EXAMINATION (12 to 25 SEPPEMBER- 2025)	

OCTOBER 2025	**25**	**Unit X - Ecology and Environment** **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, Responses to Abiotic Factors, Adaptations). (6) **Ecosystem:** Ecosystems: Patterns, components; productivity and decomposition; energy flow; pyramids of number, biomass, energy (Topics excluded: Ecological Succession and Nutrient Cycles). (5)	**Experiments:** Study of plant population density by quadrate method. Olabsvideohttps://youtu.be/FlwR-EGE9zA (1) Study of plant population frequency by quadrate method. Olabsvideohttps://youtu.be/uBYqBNyojMQ **Spotting:** Models specimen showing symbolic association in root nodules of leguminous plants, Cuscuta on host, lichens. (1)
NOVEMBER 2025	**24**	**Biodiversity and its Conservation:** 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. (10)	**Submission** 1.Record 2.InvestigatoryProject (8)
		INVESTIGATORY PROJECT **REVISION**	
		PRE-BOARD-I (19 to 29 NOVEMBER 2025)	
DECEMBER 2025		**REVISION** **PRE-BOARD II**	
JANUARY 2026		**REVISION** **CBSE PRACTICAL EXAMINATIONS**	
FEBRUARY/ MARCH 2026		**REVISION** **CBSE EXAMINATIONS**	

XII 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 material 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, and 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 colours/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**

Evaluation Scheme	Marks
One Major Experiment 5	05
One Minor Experiment 2 &3	04
Slide Preparation 1&4	05
Spotting	07
Practical Record + Viva Voce	04
Investigatory Project and its Project Record + Viva Voce Credit (to the students' work over the academic session may be given)	05
Total	30

Question Paper Design (Theory)

Class XII Biology (044)

Competencies

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

Note:

- Typology of questions: VSA including MCQs, Assertion–Reasoning type questions; SA; LAI; LA-II;

  Source-based / Case-based / Passage-based / Integrated assessment questions.

- 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) VirtualLabshttps://diksha.gov.in/virtuallabs.html)
i) Olabs-https://www.olabs.edu.in/
j) VirtualFlylabhttps://www.sciencecourseware.org/FlyLabJS/
k) BiologyInteractiveresourceshttps://www.biointeractive.org/classroom-resources
l) OnlineMacromolecularMuseumhttps://bit.ly/3YAQ1U0
m) SumanasMultimediaAnimationshttps://bit.ly/3I1XRPj
n) GeneticScienceLearningCenterhttps://learn.genetics.utah.edu/content/labs/
o) DNAInteractivehttp://www.dnai.org/
p) DNAfromthebeginninghttp://www.dnaftb.org/
q) InsideCancerhttp://www.insidecancer.org/
r) YourGenesYourHealthhttp://www.ygyh.org
s) BiologyAnimationshttps://dnalc.cshl.edu/resources/animations/
t) Biology-Livehttp://www.bio-alive.com/animations/biology.htm
u) VirtualCellAnimationshttps://vcell.science/
v) LearnGeneticshttps://learn.genetics.utah.edu/
w) Untamedsciencehttps://untamedscience.com/science-videos-list/
x) Pearsonhttps://untamedscience.com/pearson/
y) Biology https://www.pearson.com/channels/biology

NAVODAYA VIDYALAYA SAMITI

CLASS: XII **SUBJECT: HISTORY** (027)

Unit No	Name of The Chapter/ unit	Marks
01	1Bricks, Beads and Bones	25
	2 Kings,Farmers and Towns	
	3 Kinship,Caste and Class	
	4 Thinkers, Beliefs and Buildings	
02	5 Through the Eyes of Travelers	25
	6 Bhakti–Sufi Traditions	
	7 An Imperial Capital:Vijayanagar	
	8 Peasants, Zamindars and the State	
03	9 Colonialism and The Country side	25
	10 Rebels and the Raj	
04	11 Mahatma Gandhi and the Nationalist Movement	
	12 Framing the Constitution	
	MAP WORK	5
	TOTAL	80
	INTERNAL ASSESSMENT /PROJECT WORK	20
	GRAND TOTAL	100

MONTH	NO OF DAYS	Main Topic and Sub-Topics to be Covered	Activities/ Projects/ Practical Experiments to be Held/ Specific Assessment Tool(s) (Suggested)
APRIL/JUNE 2025	24	**Bricks,BeadsandBones**– The Harappan civilization 1. Beginnings. 2. Subsistence Strategies 3. Mohenjo-Daroa planned Urban Centre 4.Tracking Social Differences 5. Finding out about Craft Production 6.Strategies for Procuring Materials 7. Seals, Scripts, Weight. 8. Ancient Authority 9.The End of the Civilization 10. Discovering the Harappan Civilization 11.Problems of piecing together the Past	- Map practice of harappan sites :- Harappan, Banawali, Kalibangan, Balakot, Rakhigarhi, Dholavira, Nageshwar ,Lothal, Mohenjodaro, Chanh-udaro, Kotdiji - Quiz based on the knowledge of topics. Historical trip, project guidelines allotment of final topic for project work.
		Kings, Farmers and Towns–Early states and Economics (C.600BCE -600CE) 1.Prinsep and Piyadas' 2.The Earliest States 3.An Early Empire 4.New Notions of Kingship 5.A changing Country side 6. Towns and Trade 7. Back to basics: How are Inscriptions deciphered?	- Map practice of early states and their capitals, quiz-ancient kingdom and towns (mahajanpadas)-Vajji, Magadha, Kosala, Kuru, Pachala, Gandhara, Avanti, Rajgir, Ujjain, Taxila, Varanasi - Visit to nearby historical museum Map practice of mahajanpadas quiz on subtopics
		UNIT TEST I	
JULY. 2025	26	**Kinship, Caste and Class**-Early Societies (C.600BCE -600CE) 1. The critical edition of the Mahabharata 2. Kinship and marriage: Many rules and varied practices 3.Social differences: Within and beyond the frame work of Caste 4.Beyond birth Resources and Status 5.Explaining social differences: A Social Contract 6.Handing Texts, Historians and the Mahabharata 7.A Dynamic Text	Performing of play based on the story of Mahabharata

		Thinkers, Beliefs and Buildings Cultural Developments (C. 600 BCE - 600 CE) 1. A glimpse of Sanchi. 2. The background: Sacrifices and Debates 3. Beyond worldly pleasure, The message of Mahavira 4.The Buddha and the quest for Enlightenment 5. The teachings of the Buddha 6..Followers of the Buddha 7. Stupas 8.''Discovering" Stupas, The faith of Amaravati and Sanchi 9.Sculpture 10.New Religious Traditions 11. Canwe"SEE" everything?	Map practice of buddhist sites Visit of nearby Buddhist and puranic sites Planing and data collection for project work. Quiz based on buddism, Jainism and puranic Hinduism
		Through the Eyes of Travelers Perceptions of Society(C.Tenthto seventeenth century) 1.Al-Biruniand the Kitab-Ul Hind xi) Ibn Battuta's Rahal xii) Francois Bernier, A Doctor with a difference Making sense of an alien world, Al-Biruniand the Sanskrit tradition Ibn Battuta and the excitement of the unfamiliar Bernier and the "Degenerate East" Women, Slaves, Satiand Laboure's	Map practice of sites visited by Ibn Battuta Quiz on subtopics Conduct a group discussion on the account of medieval foreign Travellers
AUGUST 2025		**Bhakti–Sufi Traditions** Changes in Religious beliefs and devotional tests Eight to Eighteenth century) 1.A Mosaic of Religious beliefs and practices 2.Poems of Prayers: Early traditions of Bhakti 3.TheVira Shaiva tradition in Karnataka 4.Religious ferment in North India 5.NewStrands in the fabric Islamic traditions 6. The Growth of Sufism 7. The Chishti'sin the Subcontinent 8.New devotional paths dialogue and dissent Northern India 9. Reconstructing Histories of religious traditions	Map practice of temples and sufi shrines Quiz Visit of nearby temples and dargahasofsufi's

		An Imperial Capital: Vijayanagar (C. Fourteenth to Sixteenth Century) 1. The discovery of Hampi. 2. Rayas, Nayakas and Sultans 3. Vijayanagara The Capital and its Environs 4.The Royal Centre 5.The Sacred Centre 6. Plotting Palaces, Temples and Bazaars 7.Questions in search of answers	Map practice, quiz, Observation of various cultural activites during autumn season
		Peasants, Zamindars and the State Agrarian Society and the Mughal Empire (C. Sixteenth–Seventeenth Centuries) 1. Peasants and agricultural production 2.The village community 3. Women in agrarian socity 4.Forests andTribes 5.The Zamindars 6.Land revenue system 7.The flow of silver 8.TheAin-I-Akbariof Abul Fazeal	Map practice of the areas of Mughal empire Quiz A survey of nearest village and tribal area
		UNIT TEST -II	
SEPTEMBER 2025	**25**	**Colonialism and The Countryside** Exploring Official Archives 1.Bengal and the Zamindars 2.The Hoe and Plough 3.A Revolt in Countryside: The Bombay Deccan 4.The Deccan riots Commission	Map practice, Quiz Collections and discussion of official reports
		Rebels and the Raj the Revolt of 1857 and Its Representations 1. Pattern of the Rebellion 2. Awadh in Revolt 3.What the Rebels wanted 4. Repression 5.Images of the Revolt	Practice the map Major centres of british power Quiz Skit on freedom struggle
TERM I EXAMINATION (12 to 25 SEPTEMER 2025)			

OCTOBER 2025	**25**	**Mahatma Gandhi and the Nationalist Movement** Civil Disobedience and Beyond 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	- Map practice of major sites of Gandhian Movement - Skit on dandisatyagraha
NOVEMBER 2025	**24**	**Framing the Constitution** The Beginning of a NewEra 1.A Tumultuous time 2.The vision of the Constitution 3. Defining Rights 4.The Power of States 5. The Language of the nation.	Quiz on indian constitution Mock parliament Data analysis and interpretation for project work MAP WORK
		PRE-BOARD-I (19 to 29 NOVEMBER 2025)	
DECEMBER 2025		**INTERNAL ASSESSMENT/ PROJECT WORK REVISION** **PRE–BOARD II**	
JANUARY 2026		**REVISION**	
FEBRUARY / MARCH 2026		**CBSE EXAMINATION**	

NAVODAYA VIDYALAYA SAMITI

CLASS: XII SUBJECT: GEOGRAPHY (029)

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

MONTH	NO. OF DAYS	Main topic and subtopics to be covered	Activities/ projects/ practical
APRIL / JUNE 2025	24	**Fundamentals of Human Geography** **Unit I** • Human Geography Nature and Scope • The World Population: Distribution, Density and Growth **India: People and Economy** **Unit I** • Population: Distribution, Density, Growth, and Composition **Fundamentals of Human Geography** **Unit II & III** • Human Development	Activity: Debate & Discussion on Naturalization of Humans and Humanization of Nature.
		UNIT TEST I	
JULY 2025	27	**Fundamentals of Human Geography** **Unit II & III** • Primary Activities **India: People and Economy** **Unit II** • Human Settlement **Fundamentals of Human Geography** **Unit III** • Secondary activities **India: People and Economy** **Unit III** • Land Resources and Agriculture	Practical Work in Geography II 1.Data – Its Source and Compilation
AUGUST 2025	24	**India: People and Economy** **Unit III** • Water Resources • Minerals and Energy Resources **Fundamentals of Human Geography** **Unit III** • Tertiary and Quaternary Activities	Practical Work in Geography - II 2.Data Processing
		UNIT TEST -II	
SEPTEMBER 2025	25	**India: People and Economy** **Unit III** • Planning and Sustainable Development in Indian Context **Unit IV** • Transport and communication **Fundamentals of Human Geography** **Unit III** • Transport and Communication	Practical Work in Geography – II 3.Graphical Representation of Data

<table>
<tr><td colspan="4">TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)</td></tr>
<tr><td rowspan="2">OCTOBER 2025</td><td>25</td><td><u>Fundamentals of Human Geography</u>
Unit III
• International Trade
<u>India: People and Economy</u>
Unit IV
• International Trade</td><td><u>Practical Work in Geography – II</u>

4.Spatial Information Technology</td></tr>
<tr><td rowspan="2">NOVEMBER 2025</td><td>24</td><td><u>India: People and Economy</u>
Unit V
• Geographical Perspective On Selected Issues and Problems
1. Map Work on identification of features based on 1-5 units on the outline Physical/Political map of World.
2. Map work on locating and labeling of features based on above units on outline map of India.</td><td></td></tr>
<tr><td colspan="3">PRE- BOARD -I (19 to 29 NOVEMBER 2025)</td></tr>
<tr><td colspan="2">DECEMBER 2025</td><td colspan="2">INTERNAL ASSESSMENT
PROJECT WORK REVISION
PRE- BOARD II</td></tr>
<tr><td colspan="2">JANUARY 2026</td><td colspan="2">REVISION</td></tr>
<tr><td colspan="2">FEBRUARY / MARCH 2026</td><td colspan="2">REVISION

CBSE EXAMINATION</td></tr>
</table>

SUGGESTED CLASS ROOM ACTIVITIES: -

- Group Discussion Or Debate
- Map Practice
- Graph And Data Interpretation
- Focus On Local Area Resources & Environment
- Assertion And Reasioning
- Case Based Questions
- Matching Exercises
- Competency Based Questions
- Other Relevent Activities

Note*:* *Any changes in the syllabus, if announced by CBSE during the academic year 2025-26, 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: XII SUBJECT: ECONOMICS (030)

Units	Main Topic and Sub topics to be covered	Marks	Periods (As per CBSE)
Part-A	**Introductory Macroeconomics**		
	National Income and Related Aggregates	10	30
	Money and Banking	06	15
	Determination of Income and Employment	12	30
	Government Budget and the Economy	06	17
	Balance of Payments	06	18
		40	**110**
Part-B	**Indian Economic Development**		
	Development Experience (1947-90) and Economic Reforms since 1991	12	28
	Current Challenges facing Indian Economy	20	50
	Development Experience of India – A Comparison with Neighbours.	08	12
		40	**90**
	Theory Paper (Total)	**80**	**200**
Part-C	**Project Work**	20	20
	Grand Total	**100**	**220**

MONTH	NO. OF DAYS	Main Topics and Sub topics to be covered	Activities/ Projects / Practical/ Experiments to be held/ Specific Assessment Tool(s) suggested.
APRIL/JUNE 2025	24	**Unit 1:National Income and Related Aggregates:** WhatisMacroeconomics? Basic conceptsin Macroeconomics: Consumption goods, Capital goods, final goods, intermediate goods, stocks and flows, Gross investment and depreciation. Circular flow of income (two sector model), Methods of calculating National Income- Value Added or Product method, Expenditure method, Income method. 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, at factor cost, Real and Nominal GDP.GDP and Welfare. **Unit 2: Money and Banking** Money - meaning and functions, supply of money- Currency held by the public and net demand deposits held by commercial banks.	**Mind map, PPT Presentation.** **Quiz** **Selection of topic For project work** **Competency based questions** Collection of different denominations available in India since independence.
		UNIT* TEST-*I ***Syllabus :*** **Unit 1:National Income and Related Aggregates** **Unit 2: Money and Banking:** Money - meaning and functions, supply of money- Currency held by the public and net demand deposits held by commercial banks.	

JULY 2025	27	Money creation by the commercial banking system. Central bank and its functions (example of the Reserve Bank of India):Bank of issue, Government's Bank, Banker's Bank, Control of Credit through Bank Rate, CRR, SLR, Repo Rate and Reverse Repo Rate, Open Market Operations, Margin requirement. **Unit 3:Determination of Income and Employment** Aggregate demand and its components. Propensity to consume and Propensity to Save (average and marginal).Short-run equilibrium output, investment multiplier and its mechanism. Meaningoffullemployment andinvoluntary unemployment. Problems of excess demand and deficient demand: measures to correct them-changes in governmentspending, taxes and money supply. **Unit 4: Government Budget and the Economy** Government budget-meaning, objectives and components. Classification of receipts-revenue receipts and capital receipts.	Collection of material relates to project and review of literature Case study on impact and effect of Quantitative tools on credit control in the economy.
AUGUST 2025	24	Classification of expenditure-revenue expenditure and capital expenditure. Balanced, Surplus and Deficit Budget- measures of government deficit. **Unit 5:Balance of Payments** Balance of payments account-meaning and components. Balance Of Payments-Surplus and Deficit Foreign exchange rate- meaning of fixed and flexible rates and managed floating. Determination of exchange rate in a free market, Merits and demerits of flexible and fixed exchange rate. Managed Floating exchange rate system. **Unit 6:Development Experience (1947-90) and Economic Reforms since 1991:** A brief introduction of the state of Indian economy on the eve of independence.	Application oriented questions Debate Value based questions. Case study and Assertion question relates to deficit budget. Collection of data for project work Competency based questions
		UNIT TEST-II ***Syllabus*.** Unit 3:Determination of Income and Employment Unit 4: Government Budget and the Economy Unit 5: Balance Of Payments.	

SEPTEMBER 2025	25	Indian economic system and common goals of Five- Year Plans. Main features problems and policies of agriculture (institutional aspects and new agricultural strategy), industry (IPR-1956, Small Scale Industries-role and importance) and foreign trade. Economic Reforms since 1991: Features and appraisals of liberalization, Globalization and privatization (LPG policy). Concepts of demonetization and GST. **TERM-1 EXAMINATION** **(12 to 25 SEPTEMBER 2025)** *Syllabus : Unit- I to Unit- VI*	Analysis of project data Debate, quiz Application oriented questions
OCTOBER 2025	25	**Unit 7: Current Challenges facing Indian Economy** **Human Capital Formation:** How people become resource, Role of human capital in economic development, Growth of Education Sector in India. **Rural development:**Keyissues-creditand marketing-roleof cooperatives, agricultural diversification, alternative farming-Organic farming **Employment:** Growth and changes in work force participation rate in formal and informal sectors, problems and policies. **Sustainable Economic Development:** Meaning, Effects of Economic Development on Resources and Environment, including global warming.	**Findings, policy Recommendations and conclusion of project work** **Case study competency based question MCQ**
NOVEMBER 2025	24	**Unit 8: Development Experience of India:** A comparison with neighbours: India and Pakistan India and China Issues: economicgrowth, population, Sectoral development and other Human DevelopmentIndicators. **Preparation of project work** **PRE-BOARD–I (19 to 29 NOVEMBER 2025).**	**Case study competency based question MCQ** **Art integrated techniques.** Practice of Sample Papers, Practice Tests
DECEMBER 2025		**REVISION** **PRE-BOARD–II**	

JANUARY 2026	**REVISION** **CBSE PRACTICAL EXAMINATION**	
FEBRUARY / MARCH 2026	**REVISION** **CBSE EXAMINATION**	

SUGGESTED QUESTION PAPER PATTERN BY CBSE

ECONOMICS (030)

CLASS XII

Marks: 80 **Duration:3 hrs.**

S.No	**Typology of Questions**	Marks	Percentage
1	Remembering and Understanding: 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	Applying: Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	18	22.5%
3	Analyzing, Evaluating and Creating: 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 SUBJECT: **ACCOUNTANCY (055)**

Theory: 80 Marks **Time: 3 Hrs.**

Project: 20 Marks

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

PART A: ACCOUNTING FOR PARTNERSHIP FIRMS AND COMPANIES			
MONTH	**NO. OF DAYS**	**Main Topic and Subtopics to be covered**	**Activities/ Projects/ Practical/ Experiments to be held/ Specific Assessment Tools suggested**
APRIL/JUNE 2025	**24**	**Unit 1: Accounting for Partnership Firms:** • 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). • 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. **Unit-2 Accounting for Partnership Firms Reconstitution: -** -**Change in profit sharing ratio among the existing partners** - 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. **Admission of a partner** - Effect of admission of a partner on change in the profit- sharing ratio, treatment of goodwill (as per AS 26), **Admission of a partner** - 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 **UNIT TEST–I** *Syllabus :: Partnership: Fundamentals, Change in Profit Sharing Ratio*	Role Play of students regarding formation of partnership and their agreement Based on previous knowledge
JULY 2025	**27**	**Retirement and Death of a Partner**: effect of retirement/death of a partner on change in profit sharing ratio, treatment of goodwill (as perAS26),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. • 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.	Different assignments can be given to the students to understand the topic through role play method, Quiz, Class Tests

		Dissolution of a Partnership firm: 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)).	
AUGUST 2025	**24**	**Note:** (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. **Unit-3 Accounting for Companies Accounting for Share Capital** • Features and types of companies • Share and share capital: nature and types. • 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. **Accounting for Share Capital (cont.)** * Concept of Private Placement and Employee Stock Option Plan (ESOP), Sweat Equity. * Accounting treatment of forfeiture and reissue of shares. * Disclosure of share capital in the Balance Sheet of a company **UNIT TEST–II** *Syllabus: Admission of a Partner And Retirement and Death of Partner*	Different assignments can be given to the students to understand the topic through role play method, Quiz, Class Tests
SEPTEMBER 2025	**25**	**Accounting for Debentures** 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. **Note:** 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) **TERM 1 EXAMINATION** **(12 to 25 SEPTEMBER 2025)** *Syllabus : Part A (Accounting for Partnership and Companies)*	Different assignments can be given to the students to understand the topic through role play method, Quiz, Class Tests

OCTOBER 2025	**25**	**Unit-4 Analysis of Financial Statements:-** **Financial statements of a Company:** 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) Note: Exceptional items, extraordinary items and profit (loss) from discontinued operations are excluded. • Financial Statement Analysis: Meaning, Significance, Objectives, importance and limitations. Tools for Financial Statement Analysis: Cash flow analysis, ratio analysis **Unit-4 Analysis of Financial Statements** **Accounting Ratios**: 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. 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. **NOTE**: Net profit ratio is to be calculated on the basis of profit before and after tax.	Different assignments can be given to the student to understand the topic through role play method, Quiz, Class Tests
NOVEMBER 2025	**24**	**Unit 5: Cash Flow Statement** 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) **Note:** 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 accounted for in the next year after it is declared by the shareholders. **PRE-BOARD – I (19 to 29 NOVEMBER 2025)**	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

DECEMBER 2025	**REVISION** **PRE-BOARD – II**
JANUARY 2026	**REVISION** **CBSE PRACTICAL EXAMINATION**
FEBRUARY/ MARCH **2026**	**CBSE EXAMINATION**

SUGGESTED QUESTION PAPER PATTERN BY CBSE

CLASS: XII ACCOUNTANCY (055)

THEORY: 80 MARKS TIME: 3HRS.
PROJECT: 20 MARKS

SNo	Typology of Questions	Marks	Percentage
1	**Remembering and Understanding:** 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	**Applying:** Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	**19**	**23.75%**
3	**Analysing, Evaluating and Creating:** 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 **SUBJECT: BUSINESS STUDIES (054)**

THEORY - 80 MARKS **TIME-3 HRS**

PROJECT-20 MARKS

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

PART A: PRINCIPLES AND FUNCTIONS OF MANAGEMENT			
MONTH	**NO. OF DAYS**	**Main Topic and Subtopics to be covered**	**Activities/ Projects/ Practical/ Experiments to be held/ Specific Assessment Tools suggested**
APRIL2025	**24**	**Unit.01–Nature and significance of Management** 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 **Unit.02 – Principles of Management** Principles of Management - Concept and significance Fayal's principles of management Taylor's Scientific management-principles and techniques **Unit. 03 – Business Environment** Business Environment - Concept and Importance. Dimensions of Business Environment-Economic, Social, Technological, Political and Legal Demonetization - concept and features	Project work, Quiz, Mind map, Class Tests, Crossword Puzzles, Case Studies, Role Play
		UNIT TEST–I *Syllabus: Nature and Significance of Management, Principles of Management*	
JULY 2025	**27**	**Unit. 04 – Planning** Concept, importance and limitation Planning process Single use and standing plans. Objectives, Strategy, Policy, Procedure, method Rule, budget and Programme **Unit. 05 – Organizing** 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 **Unit. 06 – Staffing** Concept and importance, Staffing as a part of Human Resource Management concept, Staffing Process, Recruitment Process, sources 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	

AUGUST 2025	**24**	**Unit. 07 – Directing** Concepts and importance Elements of directing Motivation-concept, Maslow's hierarchy of needs, Financial and non-financial incentives Leadership, concept, styles-authoritative, democratic and laissez faire Communication - concept, formal and informal communication; barriers to effective communication, how to overcome the barriers **Unit. 08 – Controlling** Concept and importance, Relationship between planning and controlling, Steps in process of control **Unit. 08 – Controlling** Relationship between planning and controlling, Steps in process of control **UNIT TEST–II** *Syllabus: Business Environment, Planning and Organizing*	Quiz, Mind map, Class Tests, Cross word Puzzles, Case Studies, Role Play
SEPTEMBER 2025	**25**	**Unit.09 – Financial Management** 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 Fixed and Working Capital – Concept and factors affecting their requirements **TERM 1 EXAMINATION (12 to 25 SEPTEMBER 2025)** *Syllabus: Nature and Significance of Management to Controlling*	Quiz, Mind map, Class Tests, Cross word Puzzles, Case Studies, Role Play
OCTOBER 2025	**25**	**Unit.10–Financial Markets** Financial Markets: Concept Money Markets: Concept Capital market and its types (primary and secondary) Stock Exchange - Functions and trading procedure Securities and Exchange Board of India(SEBI)-objectives and functions	Project work, Quiz, Mind map, Class Tests, Crossword Puzzles, Case Studies, Role Play
		Unit. 10 – Marketing Marketing–Concept, functions and philosophies Marketing Mix – Concept and elements Product -branding, labelling and packaging – Concept Price-Concept, Factors determining price Physical Distribution – concept, components and channels of distribution	

NOVEMBER 2025	**24**	**Unit. 10 – Marketing** Promotion – Concept and elements; Advertising, Personal Selling, Sales Promotion and Public Relations **Unit. 10 – Consumer Protection** Concept and importance of consumer protection The Consumer Protection Act, 2019:Source: http://egazette.nic.in/WriteReadData/2019/210422.pdfMeaning 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 Practice of Sample Papers and Practice Tests
		PRE-BOARD I (19 to 29 NOVEMBER 2025)	
DECEMBER 2025		**REVISION** **PRE-BOARD – II**	
JANUARY 2026		**REVISION** **CBSE PRACTICAL EXAMINATION**	
FEBRUARY / MARCH 2026		**CBSE EXAMINATION**	

SUGGESTED QUESTION PAPER PATTERN BY CBSE

Business Studies (054)

Class XII **Theory: 80 Marks** **Project: 20Marks**

S.No	Typology of Questions	Marks	Percentage
01	**Remembering and Understanding:** 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	**Applying:** Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way	**19**	**23.75%**
03	**Analyzing, Evaluating and Creating:** 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 2025-26, 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)**

MAX. MARKS: 100 (70 Theory + 30 Practical) Distribution of Marks		
Unit No	**Name of The Chapter/ unit**	**Marks**
I	Computational Thinking and Programming 2	**40**
II	Computer Networks	**10**
III	Database Management	**20**
	Total	**70**
	Practical's	**30**
	Grand Total	**100**

MONTH.	NO. OF DAYS	Units/ Sub units/ Topics/ Chapters to be Covered	Details of Activity/ Practical/ Projects
APRIL/JUNE 2025	21	**UNIT: 1 Computational Thinking and Programming – 2** **Revision of Python topics covered in Class XI.** **Functions:** • types of function (built-in functions, • functions defined in module, • user defined functions), • creating user defined function, • arguments and parameters, • default parameters, • positional parameters, • function returning value(s), • flow of execution, • scope of a variable (global scope, local scope) **Exception Handling:** Introduction, handling exceptions using try-except-finally blocks **UNIT TEST–I**	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.
JULY 2025	27	**Introduction to files**, types of files (Text file, Binary file, CSV file), relative and absolute paths Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file	Python programs to open and close the file, read write and append to a file. Python program to implement text files and binary files. Projects can be assigned with data file handling.

AUGUST 2025	**24**	**Introduction to files** (Continued….) • Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file. • CSV file: import csv module, open / close csv file, write into a csv file using csv.writer() and read from a csv file using csv.reader( )	Python programs to implement Binary file. Python programs to implement Stack using lists
		UNIT TEST–II	
SEPTEMBER 2025	**25**	**Data Structure:** • Stack, operations on stack (push & pop), • Implementation of stack using list. **Unit II: Computer Networks** • Evolution of networking: introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET) • Data communication terminologies: concept of communication, • components of data communication (sender, receiver, message, communication media, protocols), • measuring capacity of communication media (bandwidth, data transfer rate), IP address, • switching techniques (Circuit switching, Packet switching) • Transmission media: Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves), • Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card)	Python programs to implement CSV file. Different Devices used in networking can be shown to the students. Network topologies implemented in the school can be described.
		TERM 1 EXAMINATION (12 to 25 SEPTEMBER 2025)	

OCTOBER 2025	**25**	**Network topologies and Network types:** types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree) Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP Introduction to web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting **Unit III:** **Database Management Database concepts**: • introduction to database concepts and its need • Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key) • Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, • data type (char(n), varchar(n), int, float, date), • constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key), drop table, insert, delete, select, • operators (mathematical, relational and logical), • aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete Command.	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.
NOVEMBER 2025	**24**	**Unit III:** **Database Management Database concepts**: (Continued…..) aggregate functions (max, min, avg, sum, count), group by, having clause Joins: cartesian product on two tables, equi-join and natural join **Interface of python with an SQL database:** connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using fetchone(), fetchall(), rowcount, creating database connectivity applications, use of %s format specifier or format() to perform queries	Programs on connecting python with sql and executing the queries through python programs and printing the result with various fetch methods.
		PRE-BOARD I (19 to 25 NOVEMBER 2025)	

DECEMBER 2025:	**REVISION, PROJECT WORK PREPARATION AND PRE-BOARD II EXAMINATION**
JANUARY 2026:	**REVISION, FINALISATION OF PROJECT & CBSE PRACTICAL EXAMINATION**
FEBRUARY / MARCH 2026:	**REVISION & CBSE 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.

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NAVODAYA VIDYALAYA SAMITI

CLASS: XII **SUBJECT: INFORMATICS PRACTICES (065)**

MAX. MARKS: 100 (70 Theory + 30 Practical) **Distribution of Marks**		
Unit No	**UNIT NAME**	**MARKS (THEORY)**
1	Data Handling using Pandas and Data Visualization	**25**
2	Database Query using SQL	**25**
3	Introduction to Computer Networks	**10**
4	Societal Impacts	**10**
Project		**–**
Practical		**30**
TOTAL		**100**

MONTH.	NO. OF DAYS	Weightage of Marks for Unit/ Chapter	Units/ Subunits/ Topics/ Chapters to be Covered	Details of Activity/ Practical Projects
APRIL/JUNE 2025	21	25	**Unit 1: Data Handling using Pandas and Data Visualization** **Data Handling using Pandas – I** • Introduction to Python libraries – Pandas, Matplotlib. • Data Structures in Pandas – Series and DataFrames • Series: Creation of Series from–ndarray, dictionary, scalar value; mathematical operations; Head and Tail functions; Selection, Indexing, and Slicing.	Practice of topics and Practical Programs. Activities as specified in NCERT Textbook.
			UNIT TEST I	

JULY 2025	**27**	**continue**	4. Data Frames: creation – from the dictionary of Series, 5. list of dictionaries, Text / CSV files; display; iteration; 6. Operations on rows and columns: add, select, delete,rename; 7. Head and Tail functions; 8. Indexing usingLabels, Boolean Indexing.	The practice of topics and Practical programs. Activities as specified in NCERT Textbook.
AUGUST 2025	**24**	**25**	• Importing / Exporting Data between CSV files and DataFrames. **Data Visualization** • Purpose of plotting; drawing and saving the following types of plots using Matplotlib–lineplot, bargraph, and histogram. • Customizing plots: adding labels, titles, and legend in plots. **Unit 2: Database Query using SQL** Revision of database concepts and SQL commands covered in class XI •Math functions: POWER(), ROUND( ), MOD( ) •Text functions: UCASE() / UPPER( ), LCASE( ) / LOWER(), •MID( ) / SUBSTRING( ) / SUBSTR(), LENGTH( ), LEFT( ), RIGHT( ), INSTR( ), LTRIM( ), RTRIM( ), TRIM( ). • Date Functions: NOW(), DATE(), MONTH(), MONTHNAME( ), YEAR( ), DAY( ), DAYNAME().	The practice of topics.and Practical Programs and SQL.
			UNIT TEST II	
SEPTEMBER 2025	**25**	**continue..**	• Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); usingCOUNT (*). • Querying and manipulating data using Group by, Having, Order by. • Working with two tables using equi-join.	The practice of topics.and Practical programs and SQL.
TERM I EXAMINATION (12 to 25 SEPTEMBER 2025)				

OCTOBER 2025	**25**	**10**	**Unit 3: Introduction to Computer Networks** • Introduction to networks, Types of networks: PAN, LAN, MAN, WAN. • Network Devices: modem, hub, switch, repeater, router, gateway • Network Topologies: Star, Bus, Tree,Mesh • Introduction to Internet, URL, WWW, and its applications – Web, email, Chat, VoIP. • Website: Introduction, the difference betweena website and webpage, static vs dynamic web page, web server, and hosting of a website. • Web Browsers: Introduction, commonly used browsers, browser settings, add-ons, plug-ins, cookies.	Activities as specified in the NCERT Textbook
NOVEMBER 2025	**24**	**10**	**Unit 4: Societal Impacts** • Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR) • plagiarism, licensing and copyright, free and open-source software (FOSS) • cybercrime and cyber laws, hacking, phishing, cyberbullying, an overview of the Indian ITAct. • E-waste: hazards andmanagement. • Awareness about health concerns related to the usage oftechnology.	Practical on MySQL functions Browsers and Websites Project Work
			PRE-BOARD 1 (19 to 29 NOVEMBER 2025)	
DECEMBER 2025			**REVISION, PROJECT WORK PRE-BOARD II**	
JANUARY 2026 -			**REVISION, FINALISATION OF PROJECT & CBSE PRACTICAL EXAMINATION**	
FEBRUARY / MARCH 2026			**REVISION 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
	Total	**30**

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 2025–26, 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.

NAVODAYA VIDYALAYA SAMITI

CLASS: XII SUBJECT: BIO TECHNOLOGY (045)

COURSE STRUCTURE

Max. Marks: 70+30 **Time: 3 hrs.**

Unit No	Name of the Chapter / unit	Marks
UNIT-V Protein and Gene Manipulation	**CHAPTER 1:** Recombinant DNATechnology	10
	CHAPTER 2: Protein Structure and Engineering	14
	CHAPTER 3: Genomics, Proteomics and Bioinformatics	16
UNIT-VI Cell Culture and Genetic Manipulation	**CHAPTER 4 :** Microbial Cell Culture and its Applications	8
	CHAPTER 5: Plant Cell Culture and Applications	12
	CHAPTER 6: Animal Cell Culture and Applications	10
	Practical	30
	TOTAL	**100**

MONTH	NO. OFDAYS	Units/ Subunits/ Chapters/ topics/ to be covered	Details of practical/ projecttobe given	Spotters /Activities	Tests/ Assig nments
APRIL/JUNE 2025	24	**Unit V: Protein and Gene Manipulation** **Chapter 1:Recombinant DNA Technology** Introduction, tools of Recombinant DNA technology, Making rDNA molecule, Introductionofrecombinant DNAintohostcells, Identification of recombinants, Polymerase Chain Reaction (PCR), DNA sequencing. **UNIT TEST I**	1. Use of special Equipment in biotechnology experiments. 2. Isolation of bacterial plasmid DNA		
JULY 2025	27	**Chapter 2 : Protein Structure and Engineering** Introduction to the world of proteins, Structure-function, Relationship in proteins, Characterization of proteins, Protein based products, Designing proteins (Protein Engineering).	➢ Detection of DNA by gel electrophoresis ➢ Estimation of DNA by UV-Spectroscopy	❖ Test the presence of proteins. ❖ Estimate the amount of proteins in plant and animal samples.	
AUGUST 2025	24	**Chapter 3: Genomics, Proteomics and Bioinformatics** Gene prediction and counting, Genome similarity, SNPs and Comparative genomics, Functional genomics, Proteomics, Information sources, Analysis using bioinformatics tools. **UNIT TEST II**	➢ Reading of aDNA sequencing gel to arrive at thesequence.	❖ Prepare a list of the scope of stem cell technology.	

SEPTEMBER 2025	25	**Unit VI: Cell Culture and Genetic Manipulation** **Chapter 4: Microbial Cell Culture and its Applications** 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.	➢ Cell viability assay using Evan's blue dye exclusion method. ➢ Isolation of bacteria from curd & staining of bacteria		
		TERM I EXAMINATION (12 to 25 SEPTEMBER- 2025)			
OCTOBER 2025	25	**Chapter 5: Plant Cell Culture and Applications** Introduction, Cell and tissue culture techniques, Applications of cell and tissueculture, Gene transfer methods in plants, Transgenic plants with beneficial traits, Biosafety of transgenic plants.	➢ Project work		
NOVEMBER 2025	24	**Chapter 6: Animal Cell Culture and Applications** Introduction, Animal cell culture techniques, Applications of animal cell culture, Stem cell technology.			
		PRE-BOARD-I **(19 to 29 NOVEMBER 2025)**			
DECEMBER 2025		**REVISION, PRACTICE TEST** **PRE-BOARD-II**			
JANUARY 2026		**REVISION, PRACTICE TEST, AND CBSE PRACTICAL EXAMINATION**			
FEBRUARY / MARCH 2026		**REVISION** **CBSE EXAMINATIONS**			

PRACTICALS **30 Marks**

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

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

Scheme of Evaluation

Time: 3Hours **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
	Total	**30**

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. As 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