AIR FORCE SCHOOL CHAKERI KANPUR

SPLIT UP SYLLABUS

2026-27

SUBJECT: HINDI CLASS: XI

S. NO.	MONTH	CHAPTER NAME	REMARKS
1			
2	MAY	गद्य-नमक का दरोगा, मियां नसीरुद्दीन पद्य- हम तो एक-एक कर जाना, मेरा तो गिरधर गोपाल दूसरो न कोई	
3	JULY	**अभिव्यक्ति और माध्यम - अप्रत्याशित विषयों पर रचनात्मक लेखन , जनसंचार माध्यम इकाई परीक्षा -1**	
4	AUGUST	पद्य - घर की याद गद्य-अप्पू के साथ ढाई साल वितान- भारतीय गायिकाओं में बेजोड़ लता मंगेशकर **प्रैक्टिस टेस्ट**	
5	SEPTEMBER	गद्य- विदाई संभाषण वितान- राजस्थान की रजत बूंदे अपठित बोध- गद्यांश और पद्यांश प्रथम सत्र परीक्षा -1	
6	OCTOBER	गद्य- गलता लोहा पद्य- चंपा काले काले अक्षर नहीं चीन्हती	
		अभिव्यक्ति और माध्यम - पत्रकारिता के विविध आयाम	
7	NOVEMBER	गद्य- रजनी , जामुन का पेड़ पद्य- गजल, इकाई परीक्षा -2	
8	DECEMBER	गद्य-भारत माता पद्य- हे भूख मत मचल, मेरे जूही के फूल जैसे ईश्वर , अभिव्यक्ति और माध्यम - डायरी लेखन की कला	
9	JANUARY	पद्य- आओ मिलकर बचाएं वितान- आलो अंधारि अभिव्यक्ति और माध्यम - कथा पटकथा	
10	FEBRUARY	पुनरावृति ,आंतरिक मूल्यांकन परीक्षा ,	
11	MARCH	वार्षिक परीक्षा एवं परिणाम	

BREAKUP OF SYLLABUS(2026-27)

SUBJECT: ENGLISH

CLASS: XI

SUBJECT TEACHERS : Ms. SEEMA SHUKLA PGT (English)

: Ms. SUSHMITA BOSE PGT (English)

S.No	Month	Name of the Lesson / Topic	Book / Creative Skill
1.	Apr	The Portrait of Lady	Hornbill
		A Photograph	Hornbill
		Classified Advertisements	Creative
		Integrated Grammar Exercises	Gram.
2.	May	The Summer of a Beautiful White Horse	Snapshot
		Classified Advertisements	Creative
		Integrated Grammar Exercises	Gram.
3.	Jun	The Laburnum Top	Hornbill
		The Address	Snapshot
		Poster Making	Creative
		Classified Advertisements	Creative
REVISION FOR I PERIODIC TEST			
4.	Jul	We're Not Afraid To Die.....if We Can Be Together	Hornbill
		The Voice of the Rain	Hornbill
		Childhood	Hornbill
		The Adventure	Hornbill
5.	Aug	Note Making	Creative
		Debate Writing	Creative
		Speech Writing	Creative
		Integrated Grammar Exercises	Gram.
REVISION FOR I TERM EXAM			
6.	Sep	Silk Road	Hornbill
		Classified Advertisements	Creative
		Integrated Grammar Exercises	Gram.
7.	Oct	Mother's Day	Snapshot
		Classified Advertisements	Creative
		Integrated Grammar Exercises	Gram.
8.	Nov	Birth	Snapshot
		Integrated Grammar Exercises	Gram.
		Creative Writing Skills	Creative
REVISION FOR II PERIODIC TEST			

9.	Dec	Creative Writing Skills	Creative
10.	Jan	Father to Son	Hornbill
		The Tale of Melon City	Snapshot
		Integrated Grammar Exercises	Gram.
		Creative Writing Skills	Creative
REVISION FOR II TERM EXAM			
11.	Feb	Hornbill & Snapshot	Full
		Creative Writing Skills	Creative
		Integrated Grammar Exercises	Gram.

(Ms S. Shukla)
PGT

(Ms. S. Bose)
PGT

BREAK-UP OF SYLLABUS

SESSION - 2026-2027

SUBJECT - MATHEMATICS

CLASS - XI

SUBJECT TEACHER - MR. AVINASH SINGH

TEXT BOOK - NCERT MATHS

Sr. No.	MONTHS	ACADEMIC ACTIVITIES
1	APR 2026	Admission Process
2	MAY 2026	Sets **SUMMER BREAK (MAY 2026 – JUN 2026)**
3	JUN 2026	Relations & Functions
4	JUL 2026	Trigonometric Functions **REVISION FOR I-PERIODIC TEST (10 JUL 2026 - 14 JUL 2026)** **I-PERIODIC TEST (15 JUL 2026 - 22 JUL 2026)**
5	AUG 2026	Complex Numbers & Quadratic Equations **PRACTICE TEST (17 AUG 2026 - 24 AUG 2026)** Linear Inequalities
6	SEP 2026	**REVISION FOR I-TERM EXAM (01 SEP 2026 - 06 SEP 2026)** **I-TERM EXAM (07 SEP 2026 - 21 SEP 2026)** **AUTUMN BREAK (SEP 2026 - OCT 2026)**
7	OCT 2026	Permutations & Combinations Binomial Theorem Sequence & Series
8	NOV 2026	Straight Lines Conic Sections Introduction to 3-D Geometry **REVISION FOR II-PERIODIC TEST (25 NOV 2026 - 30 NOV 2026)**
9	DEC 2026	**II-PERIODIC TEST (01 DEC 2026 - 08 DEC 2026)** **WINTER BREAK (DEC 2026 - JAN 2027)**
10	JAN 2027	Limits & Derivatives Statistics Probability
11	FEB 2027	**REVISION OF WHOLE SYLLABUS** **PRACTICE TEST (08 FEB 2027 - 13 FEB 2027)** **II-TERM EXAM (As per Date Sheet from Command)**
12	MAR 2027	**II-TERM EXAM (As per Date Sheet from Command)**

SUBJECT: PHYSICS
SPLIT UP OF SYLLABUS
CLASS XI (2026-27)
SUBJECT TEACHER: MS. ANUJA BHATIA
TEXT BOOK: NCERT PHYSICS PART 1 & 2

S.No.	MONTH	CHAPTER NAME
1.	APRIL	1. Units & Measurement
2.	MAY	2. Units & Measurement contd. **SUMMER BREAK (14 May to 16 Jun 26)**
3.	JUNE	3. Motion in a Straight Line **Exp 1**. To measure diameter of a small spherical using Vernier Calliper and hence find its volume. **Exp 2.** To measure diameter of a cylindrical body and to measure internal diameter and depth of a given calorimeter using Vernier Calliper and hence find its volume.
4.	JULY	4. Motion in a Plane **Exp 3**. To measure diameter of a given wire and thickness of a given sheet using screw gauge. **I PERIODIC TEST (15 July to 22 July 26)** 5. Laws of Motion 6. Work, Energy and Power
5.	AUGUST	Work, Energy and Power contd.. 7. Rigid Bodies and Rotation Motion 8. Gravitation **Exp 4.** To determine the mass of two different objects using a beam balance. **Exp 5.** Using a simple pendulum, plot its L-T^2 graph and use it to find the acceleration due to gravity of a place. . **PRACTICE TEST (17 Aug-24 Aug 26)**
6.	SEPTEMBER	**FIRST TERM EXAMINATION (07 Sep to 21 Sep 26)** Gravitation contd.. 9. Mechanical Properties of Solids **Exp 6.** To find the force constant of a helical spring by plotting a graph between load and extension. **Exp 7.** To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.
7.	OCTOBER	10. Mechanical Properties of Fluids 11. Thermal Properties of Substances
8.	NOVEMBER	12. Heat & Thermodynamics 13. Kinetic Theory of Gases **Exp 8.** To find the force constant of a helical spring by oscillation method.
9.	DECEMBER	**SECOND PERIODIC TEST (01 Dec to 08 Dec 26)** **WINTER BREAK (24 Dec 26 to 12 Jan 27)** 14. Oscillations **Exp 9.** To study the relation between the length of a given wire and tension for constant frequency using sonometer. **Exp 10.** To find the speed of sound in air at room temperature using a resonance tube by two resonance positions.
10.	JANUARY	15. Waves
11.	FEBRUARY	**REVISION FOR TERM II** **PRACTICE TEST (08 Feb-13 Feb 27)** **PRACTICAL EXAMS** **II TERM EXAM**
12.	MARCH	**II TERM EXAM**

BREAKUP OF SYLLABUS (2026-27)

SUBJECT: BIOLOGY

CLASS: XI

TEXT BOOK: NCERT BIOLOGY

SUBJECT TEACHER: DR SUMAN LATA YADAV

Sl.No.	MONTH	CHAPTER'S NAME
1.	APRIL	ADMISSION PROCESS
2.	MAY	1. Biodiversity
3.	JUNE	2. Biological Classification. 3. Plant Kingdom.
4.	JULY	4. Animal Kingdom 5. Morphology of flowering plants. 6. Anatomy of flowering plants. **I PERIODIC TEST (15 July - 22 July 26)**
5.	AUGUST	7. Cell structure and its function. 8. Biomolecules. 9. Cell cycle and cell division.

6.	SEPTEMBER	10. Photosynthesis. **REVISION FOR FIRST TERM EXAM** **FIRST TERM EXAMINATION (07 Sep - 21 Sep 26)**
7.	OCTOBER	11. Respiration in plants. 12. Breathing and exchange of gages. 13. Body Fluids and its Circulation.
8.	NOVEMBER	14. Excretory product and their Elimination 15. Locomotion and Movement. **REVISION FOR II PERIODIC TEST**
9.	DECEMBER	**II PERIODIC TEST (FIRST WEEK)** 16. Neural control and co-ordination. **WINTER BREAK 20 DAYS**
10.	JANUARY	17. Chemical co-ordination and Integration. **REVISION**
11.	FEBRUARY	**PRACTICAL EXAM** **II TERM EXAM (THIRD WEEK)**
12.	MARCH	**II TERM EXAM** **PTM (FOURTH WEEK)**

AIR FORCE SCHOOL, CHAKERI

Monthly Break-up of Syllabus (2026-27)

Class: XI | **Subject:** Physical Education (048)

Month	Units / Topics to Cover
April 2026	**Unit I: Changing Trends & Career in Physical Education** • Concept, aims & objectives of PE • Changing trends in sports • Career options in PE • Khelo India & Fit India Program
May 2026	**Unit II: Olympism** • Ancient & Modern Olympics • Olympic values (Excellence, Friendship, Respect) • Olympic symbols, motto, flag, oath, anthem • IOC, NOC, IFs
June 2026	**Summer Break / Remedial** • **Summer Assignment:** Preparation of Practical File. • Project Work: History of any one IOA recognized Sport/Game. • Physical Fitness testing at home.
July 2026	**Unit III: Yoga** • Meaning & importance of yoga • Elements of Yoga (Ashtanga Yoga) • Introduction to Yogic kriyas (Shat Karma)
August 2026	**Unit IV: Physical Education & Sports for CWSN** • Concept of Disability & Disorder • Types of disability (Physical, Intellectual, Sensory) • Aims & Objectives of Adaptive PE • Role of various professionals (Physiotherapist, OT, etc.)
September 2026	**Unit V: Physical Fitness, Health & Wellness** • Meaning & importance of Wellness, Health & Fitness • Components/dimensions of Health-related fitness • Traditional Games of India
October 2026	**Unit VI: Test, Measurement & Evaluation** • Concept & importance in sports • Classification of tests • BMI, WHR & Test administration
November 2026	

Month	Units / Topics to Cover
	Unit VII: Anatomy, Physiology in Sports • Definition & importance • Skeletal system (Functions & Classification) • Circulatory & Respiratory system
December 2026	**Unit VIII: Kinesiology & Biomechanics** • Definition & importance in sports • Principles of Biomechanics • Types of body movements • Axis & planes
January 2027	**Unit IX: Psychology & Sports** • Definition & scope of Sports Psychology • Adolescent problems & their management • Team cohesion & Leadership
February 2027	**Unit X: Training & Doping in Sports** • Concept & Principles of Sports Training • Cycle of training (Load, Adaptation, Recovery) • Concept of Doping & its side effects
March 2027	**Revision & Final Exams** • Full Syllabus Revision • Solving Sample Papers • Practical Assessment & Viva-Voce • Annual Examination

Subject Teacher

Principal / HOD

BREAKUP OF SYLLABUS(2026-27)
SUBJECT: ACCOUNTANCY
CLASS: xI
TEXT BOOK: NCERT BOOK

S.No.	MONTH	CHAPTER'S NAME
1.	APRIL	-----
2.	MAY	1. Introduction to Accounting
3.	JUNE	2. Theory Base of Accounting
4.	JULY	1. Vouchers and Transactions 2. Books of original Entry **REVISION FOR I PERIODIC TEST (9 July to 14 July 26)** **I PERIODIC TEST (15 July - 22 July 26)**
5.	AUGUST	3. Ledger 4. Trial Balance and Errors **PRACTICE TEST (17 Aug - 24Aug 26)**
6.	SEPTEMBER	**REVISION FOR I TERM EXAM (25 Aug - 05 Sep 26)** **FIRST TERM EXAMINATION (07 Sep - 21 Sep 26)** 5. Bank Reconciliation Statement
7.	OCTOBER	6. Depreciation 7. Provisions and Reserves
8.	NOVEMBER	8. Rectification of Errors 9. Financial statements **REVISION FOR II PERIODIC TEST (25 Nov to 30 Nov26)**
9.	DECEMBER	**II PERIODIC TEST (01 Dec – 08 Dec 26)** 10. Financial statements With Adjustments **WINTER BREAK 20 DAYS**
10.	JANUARY	11. Accounts from Incomplete Records
11.	FEBRUARY	**Revision for II Term Exam** **PRACTICE TEST (08Feb – 13Feb 27)** **II Term Exam (As per datesheet from command)**

Air Force School Kanpur
Split Up Syllabus 2026-27
Class XI
Computer Science: (083)

S.No.	Month	No. of working days	Name of the chapter/topic to be covered	Teaching Aids / E-Content Link / Innovative Practices to be Adopted	Assessment / Test / Examination to be Conducted
1	May, June & July 2026	35	**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)	1. Teaching Aids: Digital Presentation Tools: Use PowerPoint/Google Slides with embedded videos and diagrams. 2. Physical Models: Use CPU and memory hardware models (or disassembled CPUs) to demonstrate components.	Class Test
2	August 2026	23	**Unit II: Computational Thinking and Programming** - Introduction to Problem-solving: Steps for Problem-solving (Analyzing the problem, developing an algorithm, coding, testing, and debugging), representation of algorithms using flowchart and pseudo code, 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. **Operators:** arithmetic operators, relational operators, logical operators, assignment operators, augmented assignment operators, identity operators (is, is not), membership operators (in not in) Expressions, statement, type conversion, and input/output: precedence of operators, expression, evaluation of an expression, type-conversion (explicit and implicit conversion), accepting data as input from the console and displaying output. Errors- syntax errors, logical errors, and run-time errors	1.Python IDEs: Install and use beginner-friendly IDEs like Thonny, IDLE, or Jupyter Notebook. 2 . Python Tutor to visually demonstrate how Python code runs step-by-step. https://pythontutor.com	Periodic Test - 1
3	September 2026	24	**Flow of Control:** introduction, use of indentation, sequential flow, conditional and iterative flow. **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.	1. Python IDE practice using Thonny / IDLE / Jupyter Notebook for writing and executing programs. 2. Use Python Tutor (pythontutor.com) to visually trace loops and conditional statements step-by-step. 3. Interactive flowchart creation using draw.io / Lucidchart for understanding program logic. 4. Pattern-based coding activities to develop logical thinking.	Class Test

			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()	5. Peer learning: students debug each other's Python programs.	
4	October 2026	16	**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.	1.Demonstration of list operations using live coding sessions. 2.Use Jupyter Notebook interactive cells for step-by-step code explanation. 3.Visual explanation of mutable vs immutable data types using diagrams. 4.Mini classroom coding challenge: create simple programs using lists. 5.Use online coding platforms (Replit / Programiz) for practice.	Class Tests
5	November 2026	23	**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.	1.Concept explanation using real-life examples of modular programming. 2. Demonstration of function execution using Python Tutor visualization. 3.Students create small reusable functions for mathematical problems. 4.Pair programming activity for writing and testing functions. 5.Short video tutorials and digital slides explaining parameters and return values.	Half Yearly
6	December 2026	18	**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.	1.Concept mapping and mind maps for quick revision of Python concepts. 2.Student presentations on programming topics using digital tools.	Class Tests/Unit Tests/Slip Tests
			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. **Introduction to Python modules:** Importing module using 'import <module>' 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()).	3.Project-based learning: small Python projects (calculator, number games, etc.). 4.Online MCQ quizzes using Google Forms / Kahoot for self-assessment. 5. Code debugging sessions to improve programming skills.	
7	January 2027	22	**Unit III: Society, Law and Ethics**, Digital Footprints Digital Society and Netizen: net etiquettes, communication etiquettes, social media etiquette **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) **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	Roleplay Cards: Real-life scenarios for students to act out issues like phishing, copyright violation, trolling, etc.	Periodic Test II

8	February 2027	23	Comprehensive Revision, Practical Examination and Project Submission		Revision Test / Slip
9	March 2027	23	Session Ending Examination		Session Ending Examination

Mahtab Ahmad Ansari
(P.G.T. – C.S.)

BREAKUP OF SYLLABUS
SESSION: 2026-27
SUBJECT: CHEMISTRY
CLASS: XI
SUBJECT TEACHER: MR. ADITYA KUSHWAHA
TEXT BOOK: NCERT CHEMISTRY

SL. NO.	MONTH	CHAPTER'S NAME
01	MAY	1. Some Basic Concepts of Chemistry • **SUMMER BREAK (14 MAY – 17 JUN 2026)**
02	JUN	Some Basic Concepts of Chemistry(Contd.) 2. Structure of Atom
03	JUL	3. Classification of Elements and Periodicity in Properties • **REVISION FOR I-PERIODIC TEST (10 JUL – 15 JUL 2026)** • **I-PERIODIC TEST (16 JUL – 23 JUL 2026)**
04	AUG	4. Chemical bonding • **PRACTICE TEST (17 AUG – 24 AUG 2026)**
05	SEP	5. Redox Reaction • **REVISION FOR I-TERM EXAM (01 SEP – 05 SEP 2026)** • **I-TERM EXAM (07 SEP – 21 SEP 2026)** • **AUTUMN BREAK**
06	HuOCT	6. Organic chemistry: some basic principles & techniques
07	NOV	7. Hydrocarbons

08	DEC	8. Equilibrium • **REVISION FOR II-PERIODIC TEST** • **II-PERIODIC TEST (01 DEC – 08 DEC 2026)** • **WINTER BREAK**
09	JAN	Equilibrium (contd.) 9. Thermodynamics
10	FEB	• **REVISION** • **PRACTICE TEST (08 Feb – 13 Feb 2026)** • **II-TERM EXAM (Aa per datesheet from command)**