



AIR FORCE SCHOOL YELAHANKA

ACADEMIC SESSION 2026-27

SPLIT UP SYLLABUS

CLASS - XI (SCIENCE)

SUBJECT-ENGLISH

Text book: Hornbill, Snapshot

Publisher: NCERT

Periods per week: 08

No. of working days: 205

Month	No of Periods	Topic/Chapter Name
June	8	HORNBILL (core course) PROSE: 1. The Portrait of a Lady POEM : 1. A Photograph READING:Unseen passage WRITING: Classified advertisement writing
July	32	HORNBILL (core course) PROSE: 2. We're not Afraid to Die SNAPSHOT (supplementary) 1. The Summer of the Beautiful White Horse READING:case based factual passage GRAMMAR: Tenses
Aug.	26	HORNBILL (core course) PROSE: 3.Discovering Tut: The Saga Continues POEM : 2. The Laburnum Top SNAPSHOT (supplementary) 2. The Address WRITING:Poster Making GRAMMAR:Clauses
Sept	13	HORNBILL (core course) PROSE: 4. The Adventure POEM : 3. The Voice of the Rain Note - Making
Oct	18	HORNBILL (core course) PROSE: 5.Silk Road SNAPSHOT (supplementary) 3. Mother's Day WRITING: Speech Writing ALS ACTIVITIES PROJECT WORK
Nov	26	HORNBILL (core course) POEM : 4. Childhood SNAPSHOT (supplementary) 4. Birth Summarization of passage GRAMMAR:Re-ordering of sentences
Dec	21	HORNBILL (core course) POEM : 5. Father to Son SNAPSHOT (supplementary)

		5. The Tale of Melon City WRITING: Debate Writing ALS ACTIVITIES
Jan	24	GRAMMAR: Transformation of sentences ALS ACTIVITIES PROJECT WORK
Feb	23	Revision for Annual Exam Assessment of ALS activities Project and Viva
Mar		Annual Examination

SUBJECT-MATHEMATICS(041)

Text book: Mathematics Textbook for Class XI

Publisher: NECRT

Periods per week:8

No. of working days:205

Month	No of Periods	Topic/Chapter Name
June	07	Chapter-1 Sets
July	30	Chapter-2 Relations and Functions Chapter-3 Trigonometric Functions
Aug	23	Chapter-4 Complex Numbers and Quadratic Equations Chapter-5 Linear Inequalities Chapter-6 Permutations and Combinations
Sept	11	Chapter-7 Binomial Theorem Chapter-8 Sequence and Series
Oct	15	Chapter-9 Straight Lines Chapter-10 Conic Sections
Nov	23	Chapter-11 Introduction to 3-D Geometry Chapter-12 Limits and Derivatives
Dec	18	Chapter -13 Statistics
Jan	20	Chapter-14 Probability
Feb.	23	Revision
Mar		Annual Exam

SUBJECT-PHYSICS(042)

Text book:Physic Part 1 and Part 2

Publisher: NCERT

Periods per week: 07

No. of working days: 205

Month	No. of Periods	Topics
Jun	09	1.Physical World and Measurement
Jul	01	1.Physical World and Measurement
	05	2.Units and Measurements
	08	3.Motion in a Straight Line
	12	4.Motion in a plane
Aug	14	5.Laws of Motion
	09	6.Work, Energy and Power
Sep	11	7.Motion of System of particles and Rigid Body
Oct	12	8.Gravitation
Nov	08	9.Mechanical Properties of Solids
	10	10.Mechanical Properties of Fluids
	05	11.Thermal Properties of Matter
Dec	10	12.Thermodynamics
	08	13.Kinetic Theory
Jan	10	14.Oscillations
Feb	10	15.Waves
Mar		

SUBJECT - CHEMISTRY (043)

Text book: Chemistry Part 1 and Part 2

Publisher: NCERT

Periods per week: 07

No. of working days: 205

Month	No of Periods	Topic/Chapter Name
June	09	Chapter 1. Some Basic Concepts of Chemistry
July	30	Chapter 1. Some Basic Concepts of Chemistry (Conti..) Chapter 2. Structure of atom Revision for PT- I Chapter 3. Classification of elements and periodicity in properties
Aug	27	Chapter 3. Classification of elements and periodicity in properties (Conti..) Chapter 5. Chemical thermodynamics Chapter 7. Redox reaction
Sept	10	Chapter 7. Redox reaction (Conti..) Revision for Half Yearly Examination
Oct	21	Chapter 4. Chemical bonding and molecular structure Chapter 8. Organic chemistry: Some basic principles and techniques
Nov	26	Chapter 8. Organic chemistry: Some basic principles and techniques (Conti..) Chapter 9: Hydrocarbons
Dec	23	Chapter 9: Hydrocarbons (Conti..) Revision for PT III
Jan	25	Revision for PT III (Conti..) Chapter 6. Equilibrium Revision for Annual Exam
Feb		Revision for Annual Exam Annual Practical Examination
Mar		Annual Exam

SUBJECT-BIOLOGY (044)

Textbook: BIOLOGY

Publisher: NCERT

Periods per week: 08

No. of working days: 205

Month	No of Periods	Topic/Chapter Name
June	07	DIVERSITY IN THE LIVING WORLD. 1. The Living World 2. Biological Classification 3. Plant Kingdom
July	26	4. Animal Kingdom STRUCTURAL ORGANISATION IN PLANTS AND ANIMALS 5. Morphology of Flowering Plants 6. Anatomy of Flowering Plants
Aug	23	7. Structural Organisation in Animals CELL : STRUCTURE AND FUNCTION 8. Cell The Unit of Life 9. Biomolecules 10. Cell Cycle and Cell Division
Sept	11	REVISION FOR HALF YEARLY EXAMINATION
Oct	15	PLANT PHYSIOLOGY 11. Photo Synthesis in Higher Plants 12. Respiration in Plants
Nov	23	13. Plant Growth and Development HUMAN PHYSIOLOGY 14. Breathing and Exchange of Gases 15. Body Fluids and Circulation
Dec	18	16. Excretory Products and their Elimination REVISION FOR PT - 3
Jan	24	REVISION FOR PT- 3 (Conti....) 17. Locomotion and Movement 18. Neural Control and Coordination 19. Chemical Coordination and Integration
Feb	23	REVISION FOR ANNUAL EXAMINATION
Mar		ANNUAL EXAMINATION

SUBJECT-COMPUTER SCIENCE (083)

Text book: Computer Science with Python

Publisher: Sumita Arora

Periods per week: 8

No. of working days: 205

Month	No of Periods	Topic/Chapter Name
June	08	Ch-1 Computer System Overview
July	26	Ch-2 Data representation Ch-3 Boolean Logic Ch-4 Introduction to Problem-solving
Aug	24	Ch-5 Getting started with Python Ch-6 Python Fundamentals
Sept	21	Ch-7 Data Handling
Oct	20	Ch-8 Flow of Control Ch-9 String Manipulation
Nov	23	Ch-10 List Manipulation Ch-11 Tuples Ch-12 Dictionaries
Dec	18	Ch-13 Introduction to Python Modules
Jan	24	Ch-14 Introduction to IT Ch-15 Cyber Safety Ch-16 Online Access and Computer Security
Feb	23	Revision for Annual Examination Revision for Practical Examination Practical Examination
Mar	25	Annual Examination

SUBJECT-PHYSICAL EDUCATION(048)

Text book: PHYSICAL EDUCATION

Publisher: vishvas publication

Periods per week: 8

No. of working days: 205

Month	No of Periods	Topic/Chapter Name
June	08	Ch. 1 Changing Trends and Career in Physical Education
July	26	Ch. 2 Olympic Value Education Ch. 3 Yoga
Aug	24	Ch.4 Physical Education and Sports for (CWSN) Ch. 5 Physical Fitness and Wellness
Sep	21	Revision for Term I Examination
Oct	20	Ch. 6 Test Measurement and Evaluation
Nov	23	Ch. 7 Fundamental of Anatomy and Physiology in Sports
Dec	18	Ch. 8 Fundamental of Kinesiology and Biomechanics in Sports
Jan	24	Revision for PT – III Ch. 9 Psychology and Sports Ch.10 Training and Doping in Sports
Feb	23	Revision for Annual Revision for practical Exam Practical Exam
Mar		Annual Examination

SUBJECT-PHYSICS PRACTICAL(042)

Text book: Lab Manual for Physics, Class 11

Publisher: NCERT

Periods per Week – 02

No. of working days: 205

Month	No. of Periods	Experiment
July	2	SECTION–A Experiments 1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume.
	2	2. To measure diameter of a given wire and thickness of a given sheet using screw gauge.
	2	3. To determine volume of an irregular lamina using screw gauge
	2	4. To determine radius of curvature of a given spherical surface by a spherometer.
		SECTION–B Experiments
Aug	2	5. To find the weight of a given body using parallelogram law of vectors.
	2	6. Using a simple pendulum, plot its graph and use it to find the effective length of second's pendulum.
		Activities (Section A)
	1	1. To make a paper scale of given least count, e.g., 0.2 cm, 0.5 cm.
	1	2. To determine mass of a given body using a metre scale by principle of moments.
	1	3. To measure the force of limiting friction for rolling of a roller on a horizontal table
		SECTION–B Experiments
Sep	2	7. To find the force constant of a helical spring by plotting a graph between load and extension.
Oct	2	8. To study the relationship between the temperature of a hot body and time by plotting a cooling curve.
		Activities (Section B)
Oct	2	1. To observe change of state and plot a cooling curve for molten wax.
	2	2. To note the change in level of liquid in a container on heating and interpret the observations.
Nov	2	3. To study the effect of detergent on surface tension of water by observing capillary rise.
Dec	4	Project work
Jan	6	Annual Practical Examination

SUBJECT-CHEMISTRY PRACTICAL (043)

Text book: Lab Manual for Chemistry

Publisher: NCERT

Periods per week: 02

No. of working days: 205

Month	No of Periods	Topic/Chapter Name
April		
June	02	1) Basic Laboratory Techniques
July	10	2) Quantitative Estimation Quantitative Estimation I Quantitative Estimation II Quantitative Estimation III Quantitative Estimation IV
Aug	08	3) Qualitative Analysis Salt Analysis -1 Salt Analysis -2 Salt Analysis -3 Salt Analysis -4
Sept	04	Term 1 (Half Yearly) Practical Examination 2025-26
Oct	06	3) Qualitative Analysis (Conti..) Salt Analysis- 5 Salt Analysis -6 Salt Analysis -7 Salt Analysis -8
Nov	08	7) Characterisation and purification of Chemical Substances 8) Detection of – Nitrogen, Sulphur and Chlorine in organic compounds
Dec	06	9) Project Work
Jan	06	9) Project Work (Conti..) Annual Practical Examination

SUBJECT-BIOLOGY PRACTICAL(044)

Textbook: COMPREHENSIVE LAB MANUAL BIOLOGY

Publisher: NCERT

Periods per week: 02

No. of working days: 205

Month	No of Periods	Topic/Chapter Name
June	04	1. Study of Parenchyma, Collenchyma, Sclerenchyma. 2. Spotting of Plant Specimens - Mushrooms, Spyrogyra, Moss, Fern, Pinus, One Dicot, One Monocot Plant. 3. A Spotting of Animal Specimen Amoeba, Ascaris, Leech, Earthworm, Snail,
July	08	4. Study of Osmosis by Potato Osmometer 5. Study of Distribution of Stomata in the Upper and Lower Surface of Leaves 6. Study of Different Modification in Roots, Stem and leaves 7. Study of Different Modification in Roots, Stem and leaves 8. Food Taste - Taste for the Presence of the in Suitable Plants and Animals A) Sugar. B) Fat
Aug	08	9. Investigatory Project Discussion, Submission in Annual Practical Exam 10. Study of T.S. of Dicot Root and Monocot Revision for Half Yearly Examination
Sept	04	Revision for Half Yearly Examination 11. Food Taste - Starch
Oct	06	12. Study of Human Skeleton. A) Axial 13. Study of Mitosis in Onion Roots Tip Cells from Permanent Slides
Nov	06	14. Study of Human Skeleton. B) Appendicular 15. Study of Bones and Joints in Human Skeleton
Dec	06	Lab Manual Completion and Submission
Jan	08	Investigatory Project Submission Annual Practical Examination