



AIR FORCE SCHOOL YELAHANKA

ACADEMIC SESSION 2026-27

SPLIT UP SYLLABUS

CLASS - XII (SCIENCE)

SUBJECT-ENGLISH(302)

Text book: Flamingo, Vistas
Publisher: NCERT

Periods per week: 08

No. of working days: 240

Month	No of Periods	Topic/Chapter Name
April	30	FLAMINGO(core course) PROSE:1.The Last Lesson , 2.Lost Spring POEM:1.My Mother at Sixty Six VISTAS(supplementary) 1.The Third Level READING: Unseen Passages WRITING: Notice Writing
May	10	FLAMINGO(core course) PROSE:3.Deep Water 4. Rattrap POEM : 2.Keeping Quiet VISTAS(supplementary) 2. The Tiger King 3.Journey to the End of the Earth READING: Case-based passage WRITING: Invitations and Replies
June	8	FLAMINGO(core course) PROSE: 5.Indigo VISTAS (supplementary) 4.The Enemy WRITING: Formal Letter(Application of Jobs)
July	32	FLAMINGO(core course) PROSE: 6.Poets and Pancakes POEM: 3. A Thing of Beauty VISTAS(supplementary) 5. On the Face of It Writing:Letter to Editor ALS ACTIVITIES Revision for PT1
Aug	26	FLAMINGO(core course) PROSE:7.The Interview Part I and II POEM: 4.A Roadside Stand 5. Aunt Jennifer's Tigers READING COMPREHENSION ALS ACTIVITIES PROJECT WORK
Sept	13	FLAMINGO(core course) PROSE:8. Going Places Revision for Half yearly Exam

Oct	18	VISTAS (Supplementary) 6. Memories of Childhood READING COMPREHENSION WRITING: Article writing , Report writing ALS ACTIVITIES, PROJECT WORK
Nov	26	Revision for Pre board I ALS ACTIVITIES PROJECT WORK
Dec	21	Revision for Pre board II
Jan	24	ALS Assessment Activities Project and Viva Revision for Board Exam
Feb		AISSCE Theory Examination
Mar		AISSCE Theory Examination

SUBJECT-MATHEMATICS (041)

Text book: Mathematics Part I -Textbook for class XII
Mathematics Part II -Textbook for class XII

Publisher: NCERT

Periods per week: 06

No. of working days: 240

Month	No of Periods	Topic/Chapter Name
April	24	CHAPTER1-Relations and Functions CHAPTER2- Inverse Trigonometric Functions
May	6	CHAPTER3-Matrices
June	7	CHAPTER4- Determinants
July	26	CHAPTER5- Continuity and Differentiability CHAPTER6- Application of Derivatives
August	23	Application of Derivatives(Contd) Integrals CHAPTER7- integrals CHAPTER8- Application of Integrals
September	11	CHAPTER9- Differential Equations CHAPTER10- Vector Algebra Half Yearly Exam Revision
October	15	CHAPTER 11- Three-dimensional Geometry CHAPTER12- Linear Programming CHAPTER13 - Probability
November	23	Revision
December	18	Revision and common preboard exam
January	20	Revision and board internal assessment
February		AISSCE Theory Examination
March		AISSCE Theory Examination

SUBJECT-PHYSICS (042)

Text book: Physics Part 1 and Part 2

Publisher: NCERT

Periods per week: 07

No. of working days: 240

Month	No. of Periods	Topics
Apr	14	1.Electric Charges and Fields
	14	2.Electrostatic Potential and Capacitance
May & Jun	08	3.Electricity
	10	4.Moving Charges and Magnetism
	05	5.Magnetism
Jul	09	6.Electromagnetic Induction
	09	7.Alternating Currents
	04	8.Electromagnetic Waves
Aug	10	9.Ray Optics and Optical Instruments
	05	10.Wave Optics
	08	11.Dual Nature of Radiation and Matter
Sep	07	12.Atoms
Oct	07	13.Nuclei
	08	14.Semiconductors
Nov	23	Revision
Dec	18	Revision and common preboard exam
Jan	20	Revision and board internal assessment
Feb		AISSCE Theory Examination
Mar		AISSCE Theory Examination

SUBJECT- CHEMISTRY (043)

Text book: Chemistry Part 1 and Part 2

Publisher: NCERT

Periods per week: 07

No. of working days: 240

Month	No of Periods	Topic/Chapter Name
April	25	Chapter 1- Solution Chapter 2- Electrochemistry
May	07	Chapter 3- Chemical Kinetics
June	09	Chapter 6: Haloalkanes and haloarenes
July	30	Chapter 6: Haloalkanes and haloarenes (Conti..) Revision for PT 1 Chapter 7 : Alcohols, Phenols and Ethers Chapter 8: Aldehydes, Ketones and Carboxylic acid
Aug	27	Chapter 8: Aldehydes, Ketones and Carboxylic acid (Conti..) Chapter 9 : Amines Chapter 10 : Biomolecules
Sept	10	Revision for Half Yearly Exam
Oct	21	Chapter 4: d and f-block elements Chapter 5: Coordination compound
Nov		Revision for Pre-Board Examination
Dec		Revision
Jan		AISSCE Practical Examination
Feb		AISSCE Theory Examination
Mar		AISSCE Theory Examination

SUBJECT- BIOLOGY (044)**Textbook: BIOLOGY**
Publisher: NCERT**Periods per week: 07****No. of working days: 240**

Month	No of Periods	Topic/Chapter Name
April	24	GENETICS AND EVOLUTION 4. Principles of Inheritance and Variation. 5. Molecular Basis of Inheritance. 6. Evolution.
May & June	13	BIOLOGY IN HUMAN WELFARE 7. Human Health and Disease. 8. Microbes in Human Welfare.
July	26	REVISION FOR PT- 1 (Conti.....) REPRODUCTION 1. Sexual Reproduction in Flowering Plants. 2. Human Reproduction. 3. Reproductive Health
Aug.	23	BIOTECHNOLOGY 9. Biotechnology: Principles and Processes. 10. Biotechnology and its Applications.
Sept.	11	REVISION FOR HALF YEARLY EXAMINATION
Oct.	15	ECOLOGY 11. Organisms and Populations. 12. Ecosystem. 13. Biodiversity and Conservation.
Nov.	23	Revision for Pre-Board Examination
Dec.	18	Revision
Jan.	20	AISSCE Practical Examination
Feb	23	AISSCE Theory Examination
Mar.	23	AISSCE Theory Examination

SUBJECT- COMPUTER SCIENCE(083)

Textbook: Computer Science with Python

Publisher: Sumita Arora

Periods per week:8

No. of working days: 240

Month	No. of Periods	Topic/Name of the chapter
April	23	Chapter 1: Revision of Python topics covered in Class XI. Chapter 2: Functions
May	13	Chapter 3: Exception Handling in Python Chapter 4: File Handling in Python
June	08	Chapter 5: Stack Chapter 8: Structured Query Language (SQL)
July	26	Chapter 6: Understanding Data Chapter 7: Database Concepts
Aug	24	Chapter 9: Interface of python with an SQL Database Chapter 10: Computer Networks
Sept	21	Chapter 11: Data Communication
Oct	20	Chapter 12: Security Aspects Project Development / Practical file Submission
Nov	23	Revision for Pre-Board Examination
Dec	18	Revision
Jan	20	AISSCE Practical Examination
Feb		AISSCE Theory Examination
Mar		AISSCE Theory Examination

SUBJECT-PHYSICAL EDUCATION(048)

Text book: physical education

Publisher: Vishvas Publication

Periods per week: 09

No. of working days: 240

Month	No of Periods	Topic/Chapter Name
April	24	Unit 1: Management of sporting events Unit 3: Yoga as preventive measure lifestyle diseases
May	06+04	Unit 2: Children women in sports
June	07	Unit 5: Sports and nutrition
July	26	Unit 6 : Test and measurement in sports Unit 4: Physical education and sports for (CWSN) Unit 7: Physiology and injuries in sports
Aug	23	Unit 7: Physiology and injuries in sports Unit 8 : Biomechanics and sports
Sept	11	Unit 9 : Psychology and sports
Oct.	15	Unit10: Training In Sports Revision
Nov	23	Revision for Pre-Board Examination
Dec	18	Revision
Jan	20	AISSCE Practical Examination
Feb		AISSCE Theory Examination
Mar		AISSCE THEORY EXAMINATION

SUBJECT- PHYSICS PRACTICAL(042)

Text book: Lab Manual for Physics

Publisher: NCERT

Periods per week: 2

No. of working days: 240

Month	No. of Periods	Experiment
Apr	08	Experiments (SECTION–A) 1. To determine resistivity of two / three wires by plotting a graph for potential difference versus current. 2. To find resistance of a given wire / standard resistor using metre bridge. 3. To verify the laws of combination (series) of resistances using a metre bridge 4. To determine resistance of a galvanometer by half deflection method and to find its figure of merit.
Apr	02	Activity (Section-A) 1. To assemble the components of a given electrical circuit.
		Experiments (Section-B)
May & Jun	02	5. To find the value of v for different values of u in case of a concave mirror and to find the focal length.
Jul	02	6. To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$.
		ACTIVITY (SECTION A)
	02	2. To study the variation in potential drop with length of a wire for a steady current.
	02	3. 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 circuit diagram.
		Experiments (Section-B)
Aug	02	7. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
		ACTIVITY (SECTION A & B)
	02	4. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.
	02	5. 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)
		Experiments (Section-B)
Sep	02	8. To draw the I-V characteristic curve for a p-n junction diode in forward and reverse bias.
		ACTIVITY (SECTION B)
	02	6. To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items
Oct	04	Project work

Nov		
Dec		Mock Practical Exam
Jan		AISSCE Practical Examination
Feb		-
Mar		-

CHEMISTRY PRACTICAL (043)

Text book: Lab Manual for Chemistry, Class 12

Publisher: NCERT

Periods per week: 02

No. of working days: 240

Month	No of Periods	Topic/Chapter Name
April	10	1) Volumetric Analysis I 2) Volumetric analysis II 3) Characteristic tests of carbohydrates, fats and proteins in pure samples and their detection in given foodstuffs
May	02	4) Preparation of Inorganic Compounds
June	02	5) Qualitative Analysis Salt Analysis -1 and 2
July	10	5) Qualitative Analysis (Conti..) Salt Analysis - 3 and 4 Salt Analysis- 5 and 6
August	08	5) Qualitative Analysis (Conti..) Salt Analysis -7 and 8 Salt Analysis- 9 and 10 6) Investigatory Project Work
September	04	Term 1 (Half Yearly) Practical Examination 2026-27
October	06	7) Test for the functional groups present in organic compounds
November		REVISION FOR BOARD PRACTICAL EXAMINATION
December		Mock Practical Exam
January		AISSCE Practical Examination
February		-
March		-

BIOLOGY PRACTICAL (044)

Text book: COMPREHENSIVE LAB MANUAL IN BIOLOGY

Publisher: NCERT

Periods per week: 02

No. of working days: 240

Month	No of Periods	Topic/Chapter Name
April,	08	1. Study the Reproductive Parts of Commonly Available Flowers 2. To calculate Percentage of Pollen Germination 3. To Study Pollen Tube Growth on Stigma 4. Study the Discrete Stages of Gametogenesis in Mammalian Testis and Ovary
May & June,	04	5. To Study and Identify Various Stages of Female Gametophyte Development in Ovary of a Flower 6. Preparation and Study of Mitosis in Onion Root Tips
July,	06	7. Preparation and Analysis of Pedigree Charts 8. To Study The Blastula Stage of Embryonic Development in Mammals, with the help of Permanent Slide, Chart or Photograph 10. Study of Meiosis Using Permanent Slide
Aug.	08	11. To Perform Emasculation, Bagging and Tagging for Controlled Pollination 12. Investigatory Project Work
Sept.,	02	REVISION FOR HALF YEARLY EXAMINATION 13. To Identify Common Disease Causing Organism and The Symptoms of the Disease
Oct.	08	14. To Study Plant Population Density and Frequency by Quadrat Method.
Nov		REVISION FOR BOARD PRACTICAL EXAMINATION
Dec.		Mock Practical Exam
Jan.		AISSCE Practical Examination
Feb		-
Mar.		-