

**AIR FORCE SCHOOL GURGAON**  
**CLASS: XI (NON-MEDICAL) SYLLABUS (SESSION: 2024-25)**

**SUBJECT : PHYSICS**

| TERM-1           |   | TERM-2           |                                 |
|------------------|---|------------------|---------------------------------|
| BOOK NAME: NCERT |   | BOOK NAME: NCERT |                                 |
| CH NO.           | CHAPTER NAME                              | CH NO.           | CHAPTER NAME                    |
| 1                | Units and Measurements                    | 8                | Mechanical properties of Solids |
| 2                | Motion in a straight Line                 | 9                | Mechanical properties of fluids |
| 3                | Motion in a Plane                         | 10               | Thermal properties of Matter    |
| 4                | Laws of Motion                            | 11               | Thermodynamics                  |
| 5                | Work , Energy and Power                   | 12               | Kinetic theory                  |
| 6                | System of Particles and Rotational Motion | 13               | Oscillations                    |
| 7                | Gravitation                               | 14               | Waves                           |
|                  |   |                  |                                 |

**SUBJECT: CHEMISTRY**

| BOOK NAME: NCERT |  | BOOK NAME: NCERT |  |
|------------------|--|------------------|--|
| CH NO.           | CHAPTER NAME   | CH NO.           | CHAPTER NAME   |
| 1                | Some Basic Concepts of Chemistry                         | 5                | Organic Chemistry some basic principles and techniques |
| 2                | Structure of atom  | 6                | Hydrocarbons   |
| 3                | Classification of elements and Periodicity in properties | 7                | Redox Reactions  |
| 4                | Chemical Bonding and Molecular Structure                 | 8                | Thermodynamics   |
|                  |  | 9                | Equilibrium  |
|                  |  |                  |  |

**SUBJECT: MATHEMATICS**

| CH NO. | CHAPTER NAME                            | CH NO. | CHAPTER NAME                               |
|--------|---|--------|--|
| 1      | Sets                                    | 8      | Sequences and Series                       |
| 2      | Relations and Functions                 | 9      | Straight Lines                             |
| 3      | Trigonometry Functions                  | 10     | Conic Sections                             |
| 4      | Complex Numbers and Quadratic Equations | 11     | Introduction to Three Dimensional Geometry |
| 5      | Linear Inequalities                     | 12     | Limits and Derivatives                     |
| 6      | Permutations and Combinations           | 13     | Statistics                                 |
| 7      | Binomial Theorems                       | 14     | Probability                                |
|        |   |        |  |

**SUBJECT: ENGLISH**

| BOOK NAME: HORNBILL |              | BOOK NAME: HORNBILL |              |
|---------------------|--------------|---------------------|--------------|
| CH NO.              | CHAPTER NAME | CH NO.              | CHAPTER NAME |
|                     |              |                     |              |

|          |  |          |               |
|----------|--|----------|---------------|
| Lesson 1 | Portrait of a lady                         | Lesson 3 | The Adventure |
| Lesson 2 | We're not afraid to die if we die together | Lesson 4 | Silk Road     |
| Lesson 5 | Discovering Tut: The Saga Continues        | Poem 3   | Childhood     |
| Poem 1   | The Laburnum Top                           | Poem 4   | Father to Son |
| Poem 2   | The voice of rain                          |          |               |

|                             |  |                             |  |
|-----------------------------|--|-----------------------------|--|
| <b>BOOK NAME: SNAPSHOTS</b> |  | <b>BOOK NAME: SNAPSHOTS</b> |  |
|-----------------------------|--|-----------------------------|--|

|          |   |          |                        |
|----------|---|----------|------------------------|
| Lesson 1 | The Summer of the Beautiful White Horse | Lesson 4 | Birth                  |
| Lesson 2 | The Address                             | Lesson 5 | The Tale of Melon City |
| Lesson 3 | Mother's Day                            |          |                        |

|  |                           |  |                                     |
|--|---------------------------|--|-------------------------------------|
|  | <b>Grammar</b>            |  | <b>Grammar</b>                      |
|  | Advertisement , Posters   |  | Debate and Speech                   |
|  | Notemaking, Summarisation |  | Gap Filling, Modals, Active Passive |
|  |                           |  | Transformation of Sentences         |
|  |                           |  |                                     |

**SUBJECT : PHYSICAL EDUCATION**

|   |  |   |  |
|---|--|---|--|
| <b>BOOK NAME: HEALTH AND PHYSICAL EDUCATION</b> |  | <b>BOOK NAME: HEALTH AND PHYSICAL EDUCATION</b> |  |
|---|--|---|--|

| CH NO. | CHAPTER NAME                                      | CH NO. | CHAPTER NAME   |
|--------|---|--------|--|
| 1      | Changing trends and carrers in Physical Education | 6      | Test,Measurement and Evaluvation                     |
| 2      | Olympism  | 7      | Fundamental of Antomy,Physiology in Sports           |
| 3      | Yoga  | 8      | Fundamental of Kinesiology and Biomechanicsin sports |
| 4      | Physical Fitness & Sports For CWSN                | 9      | Psychology & Sports                                  |
| 5      | Physical Fitness , Health And Wellness            | 10     | Training nd Doping in Sports                         |

**SUBJECT : COMPUTER SCIENCE**

|                         |  |                         |  |
|-------------------------|--|-------------------------|--|
| <b>BOOK NAME: NCERT</b> |  | <b>BOOK NAME: NCERT</b> |  |
|-------------------------|--|-------------------------|--|

| CH NO. | CHAPTER NAME                       | CH NO. | CHAPTER NAME            |
|--------|------------------------------------|--------|-------------------------|
| 1      | Computer System                    | 3      | Emerging Trends         |
| 2      | Encoding Schemes and Number System | 8      | Strings                 |
| 4      | Introduction to problem solving    | 9      | Lists                   |
| 5      | Getting started with python        | 10     | Tuples and Dictionaries |
| 6      | Flow of Control                    | 11     | Societal Impact         |
| 7      | Function                           |        |                         |

\*Subject to change.

