

# **SYLLABUS BIFURCATION (2025-26)**

## **CLASS – XI SCIENCE (TERM-I)**

### **ENGLISH CORE (301)**

| <b>Month and Week</b>  | <b>No. of Days</b> | <b>TOPIC</b>   |
|--|--------------------|--|
| <b>APRIL 2025 (18 Days)</b>  |                    |  |
| Week 1   | 1                  | Introduction   |
| Week 2   | 4                  | Introduction of The Portrait of a Lady                                   |
| Week 3   | 5                  | The Portrait of a Lady Explanation                                       |
| Week 4   | 6                  | Explanation with Notes   |
| Week 5   | 2                  | A Photograph Introduction  |
| <b>MAY 2025 (16 Days)</b>  |                    |  |
| Week 1   | 6                  | A Photograph Explanation with Poetic Devices Extracts&                   |
| Week 2   | 5                  | The Summer of the Beautiful White Horse Explanation with Notes           |
| Week 3   | 5                  | Tenses & Posters   |
| Week 4   | -                  | -  |
| Week 5   | -                  | -  |
| <b>SYLLABUS OF PT-1</b><br>Syllabus Covered till May                       |                    |  |
| <b>JULY 2025 (26 Days)</b>   |                    |  |
| Week 1   | 6                  | Revision of PT 1, Introduction of We're not afraid to die                |
| Week 2   | 6                  | We're not afraid to die Explanation with notes                           |
| Week 3   | 6                  | The Laburnum Top, about the poem, explanation, extracts & poetic devices |
| Week 4   | 5                  | Advertisement, Transformation of Sentences                               |
| Week 5   | 3                  | The Address Introduction   |
| <b>AUGUST 2025 (22 Days)</b>   |                    |  |
| Week 1   | 4                  | The Address explanation with notes                                       |
| Week 2   | 5                  | Note Making  |
| Week 3   | 5                  | Discovering Tut Introduction with explanation                            |
| Week 4   | 6                  | Revision of grammar, Posters, Advertisement                              |
| Week 5   | 2                  | Revision of Half Yearly  |
| <b>SYLLABUS OF HALF YEARLY EXAMINATION</b><br>Syllabus covered till August |                    |  |

# MATHEMATICS (041)

| Month and Week   | No. of Days | TOPIC                               |
|--|-------------|-------------------------------------|
| <b>APRIL 2025 (18 Days)</b>  |             |                                     |
| Week 1   | 1           | Introduction                        |
| Week 2   | 4           | Sets Exercise 1.1,1.2               |
| Week 3   | 5           | Sets Exercise 1.3,1.4               |
| Week 4   | 6           | Sets Exercise 1.5 & Misc.           |
| Week 5   | 2           | Relations & Functions               |
| <b>MAY 2025 (16 Days)</b>  |             |                                     |
| Week 1   | 6           | Relations & Functions               |
| Week 2   | 5           | Relations & Functions               |
| Week 3   | 5           | Complex Numbers                     |
| Week 4   | -           | -                                   |
| Week 5   | -           | -                                   |
| <b>SYLLABUS OF PT-1</b><br>Syllabus Covered till May                       |             |                                     |
| <b>JULY 2025 (26 Days)</b>   |             |                                     |
| Week 1   | 6           | Trigonometric Functions             |
| Week 2   | 6           | Trigonometric Functions             |
| Week 3   | 6           | Principle of Mathematical Induction |
| Week 4   | 5           | Linear Inequalities                 |
| Week 5   | 3           | Permutations & Combinations         |
| <b>AUGUST 2025 (22 Days)</b>   |             |                                     |
| Week 1   | 4           | Permutations & Combinations         |
| Week 2   | 5           | Binomial Theorem                    |
| Week 3   | 5           | Sequences & Series                  |
| Week 4   | 6           | Sequences & Series                  |
| Week 5   | 2           | Sequences & Series                  |
| <b>SYLLABUS OF HALF YEARLY EXAMINATION</b><br>Syllabus covered till August |             |                                     |

| PHYSICS (042)  |             |  |
|--|-------------|--|
| Month and Week   | No. of Days | TOPIC  |
| APRIL 2025 (18 Days)   |             |  |
| Week 1   | 1           | Unit I: Physical World and Measurements<br>Chapter–1: Units and Measurements<br>Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units,                                     |
| Week 2   | 4           | significant figures, Determining the uncertainty in result. Dimensions of physical quantities, dimensional analysis and its applications.  |
| Week 3   | 5           | Unit II: Kinematics<br>Chapter–2: Motion in a Straight Line<br>Frame of reference, Motion in a straight line, Elementary concepts of differentiation and integration for describing motion, uniform and non-uniform motion |
| Week 4   | 6           | average speed and average velocity and instantaneous velocity, uniformly accelerated motion, velocity - time and position-time graphs.   |
| Week 5   | 2           | Relations for uniformly accelerated motion (graphical and calculus treatment).   |
| MAY 2025 (16 Days)   |             |  |
| Week 1   | 6           | Chapter–3: Motion in a Plane<br>Scalar and vector quantities; position and displacement vectors, general vectors and their notations; equality of vectors, multiplication of vectors by a real number;                     |
| Week 2   | 5           | addition and subtraction of vectors, Unit vector; resolution of a vector in a plane, rectangular components, Scalar and Vector product of vectors.   |
| Week 3   | 5           | Motion in a plane, cases of uniform velocity and uniform acceleration-projectile motion, uniform circular motion.  |
| Week 4   | -           | -  |
| Week 5   | -           | -  |
| <b>SYLLABUS OF PT-1</b><br>Unit I: Physical World and Measurements<br>Chapter–1: Units and Measurements<br>Unit II: Kinematics<br>Chapter–2: Motion in a Straight Line<br>Chapter–3: Motion in a Plane |             |  |

## JULY 2025 (26 Days)

|        |   |  |
|--------|---|--|
| Week 1 | 6 | <b>Unit III: Laws of Motion</b><br><b>Chapter–4: Laws of Motion</b><br>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.  |
| Week 2 | 6 | Equilibrium of concurrent forces, Static and kinetic friction, laws of friction, rolling friction, lubrication.<br>Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road).   |
| Week 3 | 6 | <b>Unit IV: Work, Energy and Power</b><br><b>Chapter– 5: Work, Energy and Power</b><br>Work done by a constant force and a variable force; kinetic energy, work-energy theorem, power.   |
| Week 4 | 5 | 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.   |
| Week 5 | 3 | <b>Unit V: Motion of System of Particles and Rigid Body</b><br><b>Chapter–6: System of Particles and Rotational Motion</b> 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. Moment of a force, torque, angular momentum, law of conservation of angular momentum and its applications. |

## AUGUST 2025 (22 Days)

|        |   |   |
|--------|---|---|
| Week 1 | 4 | Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions.   |
| Week 2 | 5 | Moment of inertia, radius of gyration, values of moments of inertia for simple geometrical objects (no derivation).   |
| Week 3 | 5 | <b>Unit VI: Gravitation</b><br><b>Chapter – 7: Gravitation</b><br>Kepler's laws of planetary motion, universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. |
| Week 4 | 6 | Gravitational potential energy and gravitational potential, escape speed, orbital velocity of a satellite, energy of an orbiting satellite.   |
| Week 5 | 2 | Energy of an orbiting satellite   |

## SYLLABUS OF HALF YEARLY EXAMINATION

Syllabus covered till August

# CHEMISTRY (043)

**Month and  
Week**

**No. of  
Days**

**TOPIC**

## APRIL 2025 (18 Days)

|        |   |  |
|--------|---|--|
| Week 1 | 1 | Ch-1 Some basic concepts of chemistry                                  |
| Week 2 | 4 | Ch-1 Some basic concepts of chemistry                                  |
| Week 3 | 5 | Ch-1 Some basic concepts of chemistry                                  |
| Week 4 | 6 | Ch-1 Some basic concepts of chemistry                                  |
| Week 5 | 2 | Ch-1 Some basic concepts of chemistry<br>(Days doubts / Exercise/Test) |

## MAY 2025 (16 Days)

|        |   |  |
|--------|---|--|
| Week 1 | 6 | Ch-2 Structure of atom                               |
| Week 2 | 5 | Ch-2 Structure of atom                               |
| Week 3 | 5 | Ch-2 Structure of atom (Days doubts / Exercise/Test) |
| Week 4 | - | -  |
| Week 5 | - | -  |

## SYLLABUS OF PT-1

Syllabus covered till May

## JULY 2025 (26 Days)

|        |   |  |
|--------|---|--|
| Week 1 | 6 | Ch-3 classification of Elements & Periodicity in properties<br>(Days doubts / Exercise/Test) |
| Week 2 | 6 | Ch-4 Chemical Bonding & Molecular Structure  |
| Week 3 | 6 | Ch-4 Chemical Bonding & Molecular Structure  |
| Week 4 | 5 | Ch-4 (doubts/ Exercises / Test)  |
| Week 5 | 3 | Ch-7 Redox Reaction  |

## AUGUST 2025 (22 Days)

|        |   |  |
|--------|---|--|
| Week 1 | 4 | Ch-7 (Doubts / Exercise / Test)                              |
| Week 2 | 5 | Ch-8 organic chemistry - Some basic Principles & Techniques. |
| Week 3 | 5 | Ch-8 organic chemistry - Some basic Principles & Techniques. |
| Week 4 | 6 | Ch-9 Hydrocarbons  |
| Week 5 | 2 | Ch-9 Hydrocarbons  |

## SYLLABUS OF HALF YEARLY EXAMINATION

Ch-1, Ch-2, Ch-3, Ch-4, Ch-7

| <b>BIOLOGY (044)</b>  |                    |   |
|---|--------------------|---|
| <b>Month and Week</b>   | <b>No. of Days</b> | <b>TOPIC</b>                            |
| <b>APRIL 2025 (18 Days)</b>   |                    |   |
| Week 1  | 1                  | Discussion of syllabus                  |
| Week 2  | 4                  | Ch 1 - The Living World                 |
| Week 3  | 5                  | Ch 1 - The Living World                 |
| Week 4  | 6                  | Ch 2 - Biological Classification        |
| Week 5  | 2                  | Ch 2 - Biological Classification        |
| <b>MAY 2025 (16 Days)</b>   |                    |   |
| Week 1  | 6                  | Ch 3- Plant Kingdom                     |
| Week 2  | 5                  | Ch 4- Animal Kingdom                    |
| Week 3  | 5                  | Ch 5- Morphology of Flowering Plants    |
| Week 4  | -                  | -                                       |
| Week 5  | -                  | -                                       |
| <b>SYLLABUS OF PT-1</b><br><b>Syllabus covered till May</b>                       |                    |   |
| <b>JULY 2025 (26 Days)</b>  |                    |   |
| Week 1  | 6                  | Ch 6- Anatomy of Flowering Plants       |
| Week 2  | 6                  | Ch 8- Cell: The Unit of Life            |
| Week 3  | 6                  | Ch 8- Cell: The Unit of Life            |
| Week 4  | 5                  | Ch 10 - Cell Cycle & Cell Division      |
| Week 5  | 3                  | Ch 13 - Photosynthesis in Higher Plants |
| <b>AUGUST 2025 (22 Days)</b>  |                    |   |
| Week 1  | 4                  | Ch 13 - Photosynthesis in Higher Plants |
| Week 2  | 5                  | Ch 14 - Respiration in Plants           |
| Week 3  | 5                  | Ch 17- Breathing & Exchange of Gases    |
| Week 4  | 6                  | Ch 17- Breathing & Exchange of Gases    |
| Week 5  | 2                  | Revision for Half Yearly Exams          |
| <b>SYLLABUS OF HALF YEARLY EXAMINATION</b><br><b>Syllabus covered till August</b> |                    |   |

## COMPUTER SCIENCE (083)

| Month and Week   | No. of Days | TOPIC  |
|--|-------------|--|
| <b>APRIL 2025 (18 Days)</b>  |             |  |
| Week 1   | 1           | Introduction of Syllabus for class XI  |
| Week 2   | 4           | Unit 1: Computer System and Organisation<br>Ch. 1 Basic of computer Organisation |
| Week 3   | 5           | Type of Software,  |
| Week 4   | 6           | Operating System and Language Processor  |
| Week 5   | 2           | Number System : Decimal, Binary, Octal & Hexadecimal                             |
| <b>MAY 2025 (16 Days)</b>  |             |  |
| Week 1   | 6           | Number System : Decimal, Binary, Octal & Hexadecimal                             |
| Week 2   | 5           | Boolean Logic : Binary Operator (NOT, AND, OR)                                   |
| Week 3   | 5           | Circuit Diagram, Truth Table, dual etc.  |
| Week 4   | -           | -  |
| Week 5   | -           | -  |
| <b>SYLLABUS OF PT-1</b><br><b>Syllabus Covered till May</b>                |             |  |
| <b>JULY 2025 (26 Days)</b>   |             |  |
| Week 1   | 6           | Introduction to Problem-solving  |
| Week 2   | 6           | flowchart and pseudocode, decomposition  |
| Week 3   | 6           | Data types, Operator,  |
| Week 4   | 5           | Errors Handling  |
| Week 5   | 3           | Flow of Control  |
| <b>AUGUST 2025 (22 Days)</b>   |             |  |
| Week 1   | 4           | Sequential, Selection & Iteration flow   |
| Week 2   | 5           | Program of If...else, for loop   |
| Week 3   | 5           | Program of for and while loop  |
| Week 4   | 6           | String in Python   |
| Week 5   | 2           | String in Python   |
| <b>SYLLABUS OF HALF YEARLY EXAMINATION</b><br>Syllabus covered till August |             |  |

## PHYSICAL EDUCATION (048)

| Month and Week   | No. of Days | TOPIC  |
|--|-------------|--|
| <b>APRIL 2025 (18 Days)</b>  |             |  |
| Week 1   | 1           | Discuss Syllabus   |
| Week 2   | 4           | Unit-1- Concept, Aims and Objectives of Physical Education   |
| Week 3   | 5           | Development of Physical Education in India, Changing trends in sports, Playing surface, Wearable Gears and sports Equipment's and Technological Advancements |
| Week 4   | 6           | Career Options in Physical Education, Khelo India program, Fit India Program   |
| Week 5   | 2           | Fit India Program  |
| <b>MAY 2025 (16 Days)</b>  |             |  |
| Week 1   | 6           | Unit-2 Olympism-Concept and Olympics Values (Excellence, Friendship& Respect, Olympic Value Education,   |
| Week 2   | 5           | Ancient and modern Olympics, Olympics  |
| Week 3   | 5           | Olympics, Olympic movement   |
| Week 4   | -           | -  |
| Week 5   | -           | -  |
| <b>SYLLABUS OF PT-1</b><br>Syllabus covered till May                       |             |  |
| <b>JULY 2025 (26 Days)</b>   |             |  |
| Week 1   | 6           | Unit-3 Yoga-meaning and Importance of yoga, Introduction of Ashtanga Yoga, yogic kriyas  |
| Week 2   | 6           | Pranayam and its types, Active lifestyle and stress Management through Yoga  |
| Week 3   | 6           | Active lifestyle and stress Management through yoga  |
| Week 4   | 5           | Unit-4. Concept of Disability and Disorder   |
| Week 5   | 3           | Types of Disability, it's causes and Nature (Intellectual Disability, Physical Disability)   |
| Week 5   | 3           | Disability Etiquette.  |
| <b>AUGUST 2025 (22 Days)</b>   |             |  |
| Week 1   | 4           | Unit-4 Aim and Objectives of Adaptive Physical Education   |
| Week 2   | 5           | Role of Various professionals for children with Special needs. Unit-5 Meaning and importance of wellness, Health and Physical Fitness                        |
| Week 3   | 5           | Components of wellness, Health and Physical Fitness, Traditional sports and regional games for promoting wellness  |
| Week 4   | 6           | Leadership Through Physical Activities and sports, Introduction of first aid   |
| Week 5   | 2           | Introduction to first aid  |
| <b>SYLLABUS OF HALF YEARLY EXAMINATION</b><br>Syllabus covered till August |             |  |



## HINDI CORE (302)

| Month and Week   | No. of Days | TOPIC   |
|--|-------------|---|
| <b>APRIL 2025 (18 Days)</b>  |             |   |
| Week 1   | 1           | आरोह -नमक का दारोगा,                                  |
| Week 2   | 4           | आरोह -नमक का दारोगा,                                  |
| Week 3   | 5           | कबीर, मीरा,   |
| Week 4   | 6           | व्याकरण- रचनात्मक लेखन                                |
| Week 5   | 2           | व्याकरण- रचनात्मक लेखन                                |
| <b>MAY 2025 (16 Days)</b>  |             |   |
| Week 1   | 6           | आरोह- मियाँ नसीरुद्दीन                                |
| Week 2   | 5           | व्याकरण- अपठित गद्यांश एवं काव्यांश                   |
| Week 3   | 5           | पूरक पुस्तिका- भारतीय गायिकाओं में बेजोड़-लता मंगेशकर |
| Week 4   | -           | -   |
| Week 5   | -           | -   |
| <b>SYLLABUS OF PT-1</b>  |             |   |
| <b>JULY 2025 (26 Days)</b>   |             |   |
| Week 1   | 6           | आरोह- अपू के साथ...,                                  |
| Week 2   | 6           | आरोह- अपू के साथ...,                                  |
| Week 3   | 6           | विदाई संभाषण  |
| Week 4   | 5           | व्याकरण- स्ववृत्त लेखन                                |
| Week 5   | 3           | व्याकरण- स्ववृत्त लेखन                                |
| <b>AUGUST 2025 (22 Days)</b>   |             |   |
| Week 1   | 4           | आरोह-घर की याद, चंपा काले...,                         |
| Week 2   | 5           | गजल   |
| Week 3   | 5           | व्याकरण- डायरी लेखन,                                  |
| Week 4   | 6           | पटकथा   |
| Week 5   | 2           | पूरक पुस्तिका- राजस्थान की रजत बूंदें                 |
| <b>SYLLABUS OF HALF YEARLY EXAMINATION</b><br>Syllabus covered till August |             |   |

## YOGA (841)

| Month and Week   | No. of Days | TOPIC  |
|--|-------------|--|
| <b>APRIL 2025 (18 Days)</b>  |             |  |
| Week 1   | 1           | Introduction   |
| Week 2   | 4           | Chapter-1 Part-A                                     |
| Week 3   | 5           | Chapter-1 Part-A finished and Chapter-1 Part-B start |
| Week 4   | 6           | Chapter-1 Part-B continued                           |
| Week 5   | 2           | Chapter-1 Part-B finished and Chapter-2 Part-A start |
| <b>MAY 2025 (16 Days) -</b>  |             |  |
| Week 1   | 6           | Chapter-2 Part-A finished                            |
| Week 2   | 5           | Chapter-2 Part-B start                               |
| Week 3   | 5           | Chapter-2 Part-B continued                           |
| Week 4   | -           | -  |
| Week 5   | -           | -  |
| <b>SYLLABUS OF PT-1</b><br>Ch. 1 from Part – A and Ch. 1 from Part -B                      |             |  |
| <b>JULY 2025 (26 Days)</b>   |             |  |
| Week 1   | 6           | Chapter-2 Part-B finished and Chapter-4 Part-A start |
| Week 2   | 6           | Chapter-4 Part-A continued                           |
| Week 3   | 6           | Chapter-4 finished and Chapter-3 Part-B start        |
| Week 4   | 5           | Chapter-3 continued                                  |
| Week 5   | 3           | Chapter-3 continued                                  |
| <b>AUGUST 2025 (22 Days)</b>   |             |  |
| Week 1   | 4           | Chapter-3 finished                                   |
| Week 2   | 5           | Chapter-5 Part-A start                               |
| Week 3   | 5           | Chapter-5 finished                                   |
| Week 4   | 6           | Chapter-3 Part-A start                               |
| Week 5   | 2           | Chapter-3 finished                                   |
| <b>SYLLABUS OF HALF YEARLY EXAMINATION</b><br>Part- A: Ch. 1 and 2<br>Part- B: Ch. 1 and 2 |             |  |