

## Class XII D – (Syllabus)

### Sub : PHYSICS

#### March - April

Chapter 1 - Electric charges and Fields:

Chapter 2 - Electrostatic Potential and Capacitance:

Chapter 3 - Current Electricity:

#### May

Chapter 4 – Moving charges and magnetism:

#### July

Chapter 5 – Magnetism and matter:

Chapter 6 - Electromagnetic induction:

Chapter 7 – Alternating current and electrical machines:

#### August

Chapter 8 – Electromagnetic waves:

Chapter 9 - Ray Optics and Optical instruments:

Chapter 10 – Wave Optics:

#### September

Chapter 10 – Wave Optics: (Continues)

Chapter 11 – Dual nature of radiation and Matter:

#### October

Chapter 12- Atoms:

Chapter 13 – Nuclei:

#### November

Chapter 14 - Semiconductor Electronics:

Chapter 15 - Communication systems:

<b>First Cycle Test</b>	<b>: Chapters 1 to 2</b>
<b>Second Cycle Test</b>	<b>: Chapters 2 to 4</b>
<b>First Term Examination</b>	<b>: Chapters 1 to 9</b>
<b>Third Cycle Test</b>	<b>: Chapters 10 to 12</b>
<b>Second Term Examination</b>	<b>: Chapters 10 to 15</b>
<b>Pre-Board Examination</b>	<b>: Chapters 1 to 15</b>

## Sub : CHEMISTRY

### March

*Units – 2 and 3*

### April

*Units – 4, 5 and 10*

### May

*Units – 11, 12 and 13*

### July

*Units – 13 (rest), 14, 16 and 1*

### August

*Units – 15 and 6*

### September

*Unit – 7*

### October

*Units – 7 (rest) and 8*

### November

*Units – 9*

<b>First Cycle Test</b>	<b>: Units – 2, 3 and 4</b>
<b>Second Cycle Test</b>	<b>: Units - 2, 3, 4, 5, 10 and 11</b>
<b>First Term Examination</b>	<b>: Units – 1, 2, 3, 4, 5, 6, 10, 11, 12, 13, 14, 15 and 16</b>
<b>Third Cycle Test</b>	<b>: Units - 7, 8 and 9</b>
<b>Second Term Examination</b>	<b>: Units 1, 6, 7, 8, 9, 10, 11, 12 and 13</b>
<b>Pre-Board Examination</b>	<b>: Chapters 1 to 16</b>

## Sub : ENGLISH

### March

*Invitations- formal & informal.*

*Replies to invitations- formal & informal*

### April - May

*The Last Lesson, Lost Spring.*

*My Mother at 66, the Tiger King.*

*The Enemy and Deep water.*

### July

*The Rattrap.*

*An Elementary School Classroom in a Slum.*

*Keeping Quiet and Should Wizard Hit Mommy?*

*Indigo.*

### August

*Going places.*

*A Thing of Beauty.*

*On the Face of it.*

*Aunt Jennifer's Tigers.*

### September

*Memories of Childhood.*

### October

*Evans Tries an O-Level.*

### November

*Any backlog due to unforeseen schedules.*

*Revision.*

<b>First Cycle Test</b>	<b>: Note making, Novel chapters 1-5, My Mother at 66, The Last Lesson, Formal letters, Invitations and Posters.</b>
<b>Second Cycle Test</b>	<b>: Lost Spring, The Tiger king, The Enemy, Note making, Novel chapters 6 – 10, Formal letters and short writing skills</b>
<b>First Term Examination</b>	<b>: All writing skills covered in XI &amp; XII, All chapters covered till August and Novel chapters 01-15.</b>
<b>Third Cycle Test</b>	<b>: Note making, Novel chapters 16 – 21, Memories of childhood, Aunt Jennifer's Tiger, A thing of beauty and Advertisements.</b>
<b>Second Term Examination</b>	<b>: The complete syllabus of class XII.</b>

# Sub : MATHEMATICS

## March

*Chapter 3 - Matrices*

*Chapter 4 – Determinants*

## April

*Chapter 2 - Inverse Trigonometric Functions*

*Chapter 5 - Continuity and Differentiability*

## May

*Chapter 6 - Application of Derivatives*

*Chapter 7 - Integration*

## July

*Chapter 7 - Integration (contd)*

*Chapter 8 - Application of Integration*

## August

*Chapter 9 - Differential Equation*

## September

*Chapter 10 - Vectors*

*Chapter 11 - Three Dimensional Geometry*

## October

*Chapter 12 - Linear Programming*

*Chapter 13 - Probability*

## November

*Chapter 1 - Relations and Functions*

## December

*Chapter 1 - Relations and Functions*

<b>First Cycle Test</b>	<b>: Chapters 2, 3 and 4</b>
<b>Second Cycle Test</b>	<b>: Chapters 2, 5 and 6</b>
<b>First Term Examination</b>	<b>: Chapter 2, 3, 4, 5, 6 and 7</b>
<b>Third Cycle Test</b>	<b>: Chapters 10, 11 and 13</b>
<b>Second Term Examination</b>	<b>: Complete Syllabus</b>

## Sub : BIOLOGY

### March

*Principles of Inheritance, Molecular basis of inheritance*

### April

*Evolution, Human health and disease (introduction)*

### May

*Complete chapter 5, Strategies of enhancing food production*

### July

*Microbes in Human Welfare, Organism and population*

### August

*Biotechnology principles and processes, Biotechnology and its application*

### September

*Ecosystem and Biodiversity*

### October

*Environmental Issues and Reproduction in organisms*

### November

*Human reproduction and Human Reproductive Health*

**First Cycle Test : Chapters 5, 6 and 7**

**Second Cycle Test : Chapters 8 and 9**

**First Term Examination : Topics covered during March to August**

**Third Cycle Test : Topics covered during September to October**

**Second Term Examination : All chapters**

## Sub : COMPUTER SCIENCE

### March

*Classes and Objects, Constructors, Inheritance and Types of Inheritance*

### April-May

*Files- Text and Binary Files, Boolean algebra, Databases and SQL*

### July

*Revision Tour of Programming in C++*

### August

*Pointers Stacks and Queues*

### September

*Revision for the half Yearly Exam*

### October

*Communication and Networks*

### November

*Standard programs of C ++*

### December

*Revision of the entire syllabus*

<b>First Cycle Test</b>	<b>: All the chapters done till 04 May 2018</b>
<b>Second Cycle Test</b>	<b>: Programming concepts of arrays, matrices, functions, structures, Boolean algebra and Databases and SQL</b>
<b>First Term Examination</b>	<b>: Entire syllabus done till September</b>
<b>Third Cycle Test</b>	<b>: Communication and Networks, Boolean algebra, Databases and SQL</b>
<b>Second Term Examination</b>	<b>: Complete syllabus</b>

# Sub : PSYCHOLOGY

March

*Unit - 1*

April-May

*Unit – 2, Unit 3*

July

*Unit - 4*

August

*Unit - 5*

September

*Revision (Unit 1 - 5)*

October

*Unit - 6*

November

*Unit - 8*

<b>First Cycle Test</b>	<b>: Unit 1 and 2</b>
<b>Second Cycle Test</b>	<b>: Unit 2 and 3</b>
<b>First Term Examination</b>	<b>: Unit 1, 2, 3, 4 and 5</b>
<b>Third Cycle Test</b>	<b>: Unit 6 and 7</b>
<b>Second Term Examination</b>	<b>: Unit 6 -9</b>
<b>Pre-Board Exam</b>	<b>: Unit 1-9</b>

## Sub : ECONOMICS

### March - April

*UNIT 1: Introduction to micro-macro, PPC curve analysis*

*UNIT 2: Consumer's Equilibrium and Demand*

*UNIT 3: Producer Behaviour and Supply*

### May

*UNIT 4: Forms of Market and Price Determination*

### July

*MACRO ECONOMICS: UNIT 5: National Income and Related Aggregates*

### August

*UNIT 5 Continued*

*Unit 6: Money and Banking*

### September

*Introduction to UNIT 7: Determination of Income and Employment*

### October

*UNIT 7 Continued*

*UNIT 8: Government Budget and Economy*

### November

*UNIT 9: Balance of Payment, Practice of sample papers and revision*

<b>First Cycle Test</b>	<b>: UNIT 1 and UNIT 2</b>
<b>Second Cycle Test</b>	<b>: UNIT 3 AND UNIT 4</b>
<b>First Term Examination</b>	<b>: UNIT 1,2,3,4 OF MICRO AND UNIT 5 OF MACRO</b>
<b>Third Cycle Test</b>	<b>: UNIT 8 and UNIT 9</b>
<b>Second Term Examination</b>	<b>: WHOLE MACRO</b>
<b>Pre-Board Examination</b>	<b>: WHOLE SYLLABUS</b>



# Sub : PHYSICAL EDUCATION

## April - May

*PLANING IN SPORTS*

*SPORTS AND NUTRITION*

## July

*YOGA AND LIFESTYLE*

*PHYSICAL EDUCATION AND SPORTS FOR DIFFERENTLY ABLED*

## August

*CHILDREN & SPORTS*

*WOMEN & SPORTS*

## September

*TEST & MEASUREMENT IN SPORTS*

*PHYSIOLOGY & SPORTS*

## October

*SPORTS MEDICINE, KINESIOLOGY, BIOMECHANICS & SPORTS*

*PSYCHOLOGY & SPORTS*

## November

*TRAINING IN SPORTS*

## December

*Revision of the entire syllabus*

## January

*Revision of the entire syllabus*

<b>First Cycle Test</b>	<b>: PLANING IN SPORTS</b>
<b>Second Cycle Test</b>	<b>: PLANING IN SPORTS, YOGA AND LIFESTYLE, PHYSICAL EDUCATION AND SPORTS FOR DIFFERENTLY ABLED</b>
<b>First Term Examination</b>	<b>: All chapters covered from April to September.</b>
<b>Third Cycle Test</b>	<b>: CHILDREN &amp; SPORTS, WOMEN &amp; SPORTS, TEST &amp; MEASUREMENT IN SPORTS, PHYSIOLOGY &amp; SPORTS</b>
<b>Second Term Examination</b>	<b>: All chapters covered in October and November</b>
<b>Pre-Board Examination</b>	<b>: All chapters covered from April to November.</b>

## Sub : FINE ARTS

### April

*Theory- Introduction of miniature painting in India.*

### May

*Theory- History of Mughal & Deccan miniature paintings.*

### July

*Theory- Study of Rajasthani miniature paintings.*

### August

*Theory- Pahari miniature painting.*

### September

*Theory- Bengal School and modern trend in India.*

### October

*Theory- Modern painting trend in India.*

### November

### December

### January

**First Cycle Test** :

**Second Cycle Test**

**First Term Examination** :

**Third Cycle Test** :

**Second Term Examination** :

## Sub : ENGINEERING GRAPHICS

### Syllabus For Cycle Test

#### CT 1.5

Construction of isometric scale

Isometric projection of simple solids – prism, pyramid, cone, cylinder, Sphere, and Hemisphere (axis parallel to one of the planes and perpendicular to the other, parallel to both the planes)

Isometric projection of combination of two solids

Construction of standard thread profiles

Orthographic views of nuts and bolts, assembled views of nuts with bolt and washer

Orthographic views of single rivetted lap joint

Free hand sketching of machine screws, keys, rivets and studs.

#### CT 2.5

Assembly and disassembly drawings of open bearing, bush bearing, sleeve and cotter joint, socket and spigot joint, jib and cotter joint, and turn buckle.

#### CT 3.5

Assembly and disassembly drawings of flange pipe joint, protected and unprotected coupling, and solid cast iron pulley