

# Syllabus: VII Physics

Units	S.No	CONTENTS Class VII Physics	T	L	Tests
		<b>UNIT I: Basic Units</b>	<b>I.(1-2)</b>		
<b>UNIT I</b>	1	Measurements			
	2	Solving problms			
		<b>UNIT II: Motion and Time</b>	<b>II.(3-5)</b>		
<b>UNIT II</b>	3	Time and its measurements			
	4	Speed and its measurements			
	5	Distance-Time Graphs			
		<b>UNIT III: Heat</b>	<b>III.(6-8)</b>		
<b>UNIT III</b>	6	Heat and Temperature			
	7	Heat Transfer			
	8	Solving problms			
		<b>UNIT IV:Light</b>	<b>IV.(9-12)</b>		
<b>UNIT IV</b>	9	Properities of light			
	10	Reflection of light			
	11	Spherical Mirrors			
	12	Lenses			
		<b>UNIT V: Electric Current</b>	<b>V.(13-15)</b>		
<b>UNIT V</b>	13	Electric current and its components			
	14	Magnetic Effect			
	15	Heating Effect			

# Syllabus: VII Chemistry

Units	S.No	CONTENTS Class VII Chemistry	T	L	Tests
<b>UNIT I: Matter and Its Composition I.(1-6)</b>					
<b>UNIT I</b>	1	Nature of Matter			
	2	Characteristics of particles			
	3	States of Matter			
	4	Interconversion of States of Matter			
	5	States of Matter Based on Kinetic Theory			
	6	Law of Conservation of Mass			
<b>UNIT II: The Language of Chemistry II.(7-11)</b>					
<b>UNIT II</b>	7	Symbols Based on latin Names			
	8	Chemical Symbols			
	9	Valency and Radicals			
	10	Writing Chemical Formulae			
	11	Molecular and Chemical Formulae			
<b>UNIT III: Physical and Chemical Changes III.(12-15)</b>					
<b>UNIT III</b>	12	Physical and Chemical Changes			
	13	Conditions for Chemical Changes			
	14	Chemical Reactions			
	15	Characteristics of Chemical Reactions			
<b>UNIT IV: Acids, Bases and Salts IV.(16-19)</b>					
<b>UNIT IV</b>	16	General Properties of Acids and Bases			
	17	Chemical Properties of Acids and Bases			
	18	Formation of Salts			
	19	Uses of Acids, Bases and Salts			
<b>UNIT V: Structure of Atom V.(20-21)</b>					
<b>UNIT V</b>	20	Definition of An Element and An Atom			
	21	Constituents of An Atom			
<b>UNIT VI: Air and Water VI.(22-27)</b>					
<b>UNIT VI</b>	22	Occurrence of Water			
	23	Physical States of Water			
	24	Air Dissolved in Water			
	25	Water Pollution			
	26	Air and Its Constituents			
	27	Air Pollution			

# Syllabus: VII Biology

Units	S.No	CONTENTS Class VII Biology	T	L	Tests
		<b>UNIT I: Nutrition</b>	<b>I.(1-2)</b>		
<b>UNIT I</b>	1	Nutrition in Plants			
	2	Nutrition in Animals			
		<b>UNIT II: Five Kingdom of Life</b>	<b>II.(3-7)</b>		
<b>UNIT II</b>	3	Kingdom Monera			
	4	Kingdom Protista			
	5	Kingdom Fungi			
	6	Kingdom Plantae			
	7	Kingdom Animalia - Cockroach			
		<b>UNIT III: Plant Morphology</b>	<b>III.(8-12)</b>		
<b>UNIT III</b>	8	Leaf			
	9	Stem			
	10	Root			
	11	Flower			
	12	Seed			
		<b>UNIT IV: Human Physiology</b>	<b>IV.(13-15)</b>		
<b>UNIT IV</b>	13	Respiratory System			
	14	Skeletal System			
	15	Structure of Brain			
		<b>UNIT V: Diseases of Man</b>	<b>V.(16-18)</b>		
<b>UNIT V</b>	16	Viruses			
	17	Bacteria			
	18	Other diseases			
		<b>UNIT VI: Introduction - Ecology</b>	<b>VI.(19-20)</b>		
<b>UNIT VI</b>	19	Pond: Ecosystem			
	20	Forest: Our Life			
		<b>UNIT VII: Economic Biology</b>	<b>VII.(21)</b>		
<b>VII</b>	21	Introduction			

# Syllabus: VII Mathematics

Units	S.No	CONTENTS Class VII Mathematics	T	L	Tests
<b>UNIT I: Integers I.(1-2)</b>					
<b>UNIT I</b>	1	Addition, Subtraction of Integers			
	2	Multiplication, Division of integers and BODMAS Rule			
<b>UNIT II: Fractions, Decimals And Rational Numbers II.(3-7)</b>					
<b>UNIT II</b>	3	Multiplication of Fractions			
	4	Division of Fractions			
	5	Decimal Numbers or Fractional Decimals			
	6	Multiplication of Decimal Numbers			
	7	Introduction To Rational Numbers			
<b>UNIT III: Simple Equations III.(8-10)</b>					
<b>UNIT III</b>	8	Mathematical Statements			
	9	Equations			
	10	Solving Equations			
<b>UNIT IV: Lines And Angles IV.(11-13)</b>					
<b>UNIT IV</b>	11	Types of Angles, Pair of Angles			
	12	Intersecting Lines			
	13	Transversal			
<b>UNIT V: Triangle And Its Properties V.(14-16)</b>					
<b>UNIT V</b>	14	Classification of Triangles Based on Sides and Angles			
	15	Altitudes, Medians of A Triangle			
	16	Properties of Triangles			
<b>UNIT VI: Square Roots and Cube Roots VI.(17-18)</b>					
<b>VI</b>	17	Prime Factorization			
	18	Square Roots and Cube Root of a Number			
<b>UNIT VII: Data Handling VII.(19-22)</b>					
<b>UNIT VII</b>	19	Organising Data			
	20	Arithmetic Mean			
	21	Mode			
	22	Median			
<b>UNIT VIII: Algebraic Expressions VIII.(23-27)</b>					
<b>UNIT VIII</b>	23	Variable and Constant			
	24	term, Like terms and Unlike Terms			
	25	Degree of Algebraic Expressions			
	26	Simplification of An Algebraic Expression			
	27	Finding The Value Of An Expression			

		<b>UNIT IX: Exponents</b>	<b>IX.(28-29)</b>				
<b>IX</b>	28	Exponential Form					
	29	Laws of Exponents					
		<b>UNIT X: Quadrilaterals</b>	<b>X.(30-32)</b>				
<b>UNIT X</b>	30	Convex And Concave Quadrilateral					
	31	Properties of A Quadrilateral					
	32	Types of Quadrilateral					
		<b>UNIT XI: Area and Perimeter</b>	<b>XI.(33-35)</b>				
<b>UNIT XI</b>	33	Area and Perimeter of A Traingle					
	34	Area and Perimeter of A Rectangle and Square					
	35	Area and Circumference of A Circle					