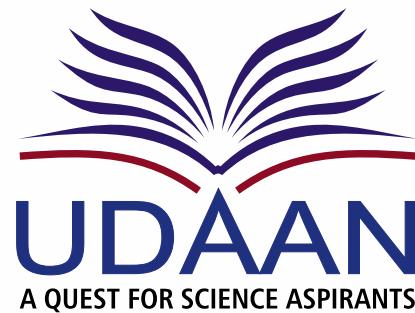


# UDAAN-2025 SYLLABUS



## CLASS - 5

**Physics** : Our Universe, Simple Machines, Force, Work, Energy, Light, Measurement, Motion.

**Chemistry** : Matter and its states, Natural Resources, Water and Air.

**Biology** : Super Senses , From tasting to digesting , Seeds and Seeds, Treat for Mosquitoes, A seed tells a farmer's story , Whose Forest , Abita and the Honeybees , Basava's Farm

**Maths** : Measurement, Multiplication and Division, Basic Geometrical Ideas, Integers, Fractions, Decimals, Area and its Boundary.

**Mental Ability** : Visual Reasoning (Paper Folding / Cutting, Series Completion), Deductions-Syllogisms, Series Completion (Letters and Numbers), Direction/Distance Problems, Verbal Classification-Odd Man Out.

## CLASS - 6

**Physics** : Force & Energy, Earth & Universe, Light, Shadows & Reflections, Motion and Measurement of Distances, Fun with magnets, Electricity and Circuits.

**Chemistry** : Introduction to Chemistry, Changes around us , Sorting materials into Groups, Separation of Substances, Fiber to Fabric, Water and Air.

**Biology** : Food : where does it come from, Components of Food, Getting to know plants , Body Movements, Living organisms characteristics and habitats, Garbage in , Garbage Out, Super Senses, From tasting to Digesting, A treat for Mosquitoes, Whose Forest

**Maths** : Knowing our number, Whole number, Algebra, Measurement, Multiplication and Division, Basic Geometrical Ideas, Integers, Fractions, Decimals, Area and its Boundary.

**Mental Ability** : Visual Reasoning (Paper Folding / Cutting, Series Completion), Deductions-Syllogisms, Series Completion (Letters and Numbers), Direction/Distance Problems, Verbal Classification - Odd Man Out.

## CLASS - 7

**Physics** : Motion and Measurement of Distance and Time, Light, Shadows & Reflections, Fun with Magnets, Force and Energy, Electric Circuits, Electric Current an its effects, Heat.

**Chemistry** : Basic concepts of Chemistry, Water, Physical and chemical changes, Acids, Bases and Salts, Separation of Substances.

**Biology** : Nutrition in plants and animals, Weather climate and Adaptation of Animals to climate, Respiration in Organisms, Transportation in animals and plants, Reproduction in plants, Forests, Components of Food , Getting to know plants, Body movements, living organisms characteristics and habitats

**Maths** : Integers, Fractions & Decimals, Perimeter and Area Simple Equations, Lines and Angles, Rational Numbers, Algebraic Expressions, Exponents and Powers, Profit and Loss, Percentage. Ratio and proportion, Data Handling

**Mental Ability** : Visual Reasoning (Paper Folding / Cutting, Series Completion), Deductions-Syllogisms, Series Completion (Letter and Numbers), Direction/Distance Problems, Venn Diagrams, Verbal Classification - Odd man out, Coding-Decoding Blood Relationships.

## CLASS - 8

**Physics** : Chemical effect of Electricity, Force and Pressure, Sound, some natural phenomena , Light and Reflection, Friction, Heat.

**Chemistry** : Metals-Non metals, Basic of Chemistry, Combustion & Fuel, Acid, Base and Salt, Physical and chemical changes.

**Biology** : Crop production and Management, Microorganisms: friend and Foe, Conservation of plants and animals, Reproduction in animals, Reaching the age of Adolescence , Reproduction in plants , Respiration in organisms , Body Movements , Garbage in Garbage out.

**Maths** : Ratio & Proportion and Application of Percentage, Perimeter and Area, Algebraic Expression, Rational Numbers Linear Equations in One Variable, Understanding Quadrilaterals Squares and Square Roots, Cubes and Cube Roots, Exponents and Power, Data Handling, direction and indirect variation.

**Mental Ability** : Number series, Alphabet series, Letter repeating series, Missing term in figures, Ranking & ordering tests, Puzzle test, Figure partition, Direction sense, Coding decoding, Blood relations, Cube-test, Dice-test, Embedded figure

## CLASS - 9

**Physics** : Units and Measurements, Motion, Force and Newton's Laws of Motion, Gravitation, Pressure and Floatation, Work Power & Energy, Earth and Universe, Friction, Light.

**Chemistry** : Matter in Our Surroundings, Is Matter Around Us Pure, Basic of Chemistry, Metals-Non metals, , Combustion & fuel

**Biology** : Cell Structure & Function, Tissue, Crop Production and Management, Micro-Organism: Friend and Foe, Conservation of Plants and Animals, Reproduction, Reaching the Age of Adolescence.

**Maths** : Linear Equations in One Variable, Understanding Quadrilaterals, Circle, Squares and Square Roots, Algebraic Expressions and Identities, Mensuration, Exponents and Powers, Factorization, Number system, Polynomial, Euclid's Geometry, Lines, Angles and Triangles, Ratio & Proportion and Application of Percentage, Data handling.

**Mental Ability** : Visual Reasoning (Paper Folding / Cutting, Series Completion), Deductions-Syllogisms, Series Completion (Letter and Numbers), Direction/Distance Problems, Venn Diagrams, Verbal Classification-Odd man out, Coding-Decoding, Blood Relationship, Calendar Problems, Data Sufficiency, Statement/Conclusions, Data Interpretation, Verbal Reasoning

## CLASS - 10

**Physics** : Refraction of light Reflection of Light Electricity, Magnetic effect of Electricity, Newton's Laws of Motion, Work, Energy and Power, Gravitation, Motion,.

**Chemistry** : Chemical reactions and equations, Acid and Base and salt, Metals and non-metals, Structure of Atom, Atoms and Molecules, Matter in Our Surroundings, Is Matter Around Us Pure.

**Biology** : Life processes, Control & Coordination, How do Organisms Reproduce, The cell, Tissue.

**Maths** : Number System, Polynomial, Linear Equations in Two Variables, Introduction Euclid's Geometry, Lines, Angles, Triangles-Congruency & Similarity of Triangles and Quadrilaterals Areas of Parallelograms and Triangles, Circles, Heron's Formula Surface Area and Volumes, Probability, Introduction to Trigonometry, Quadratic Equation, Statistics, Coordinate Geometry, Arithmetic Progression

**Mental Ability** : Visual Reasoning (Paper Folding / Cutting, Series Completion), Deductions-Syllogisms, Series Completion (Letter and Numbers), Direction/Distance Problems, Venn Diagrams, Verbal Classification-Odd man out, Coding-Decoding, Blood Relationship, Calendar Problems, Data Sufficiency, Statement/Conclusions, Data Interpretation, Verbal Reasoning.