UDVASH
Academic And Admission Care

HSC 2nd Year Academic Program Progressive Batch

Class & Exam Routine-01

Helpline
09 666 77 55 66

16 July 2026 (Thursday) Orientation class [Time-7:30pm]			
Date & Day	**Live Class-01 2:30pm**	**Live Class-02 6:30pm**	**Live Exam Online: From 8:00am to 11:55pm**
18 July 2026 (Saturday)	Physics (P-01)	H.Math (HM-07)	Basic Introductory Exam MCQ (10×1=10); 10min.
19 July 2026 (Sunday)	Chemistry (C-01)	Physics (P-02)	Daily Live Exam P-01 MCQ (10×1=10); 10 min. Daily Live Exam HM-07 MCQ (10×1=10); 10 min.
20 July 2026 (Monday)	Chemistry (C-02)	H.Math (HM-23)	Daily Live Exam C-01 MCQ (10×1=10); 10 min. Daily Live Exam P-02 MCQ (10×1=10); 10 min.
21 July 2026 (Tuesday)	Physics (P-09)	H.Math (HM-24)	Daily Live Exam C-02 MCQ (10×1=10); 10 min. Daily Live Exam HM-23 MCQ (10×1=10); 10 min.
22 July 2026 (Wednesday)	H.Math (HM-08)	Zoology (Z-01)	Daily Live Exam P-09 MCQ (10×1=10); 10 min. Daily Live Exam HM-24 MCQ (10×1=10); 10 min.
23 July 2026 (Thursday)	Chemistry (C-03)	Botany (B-01)	Daily Live Exam HM-08 MCQ (10×1=10); 10 min. Daily Live Exam Z-01 MCQ (10×1=10); 10 min.
25 July 2026 (Saturday)	Physics (P-03)	H.Math (HM-09)	Daily Live Exam C-03 MCQ (10×1=10); 10 min. Daily Live Exam B-01 MCQ (10×1=10); 10 min.
26 July 2026 (Sunday)	Chemistry (C-04)	Physics (P-04)	Daily Live Exam P-03 MCQ (10×1=10); 10 min. Daily Live Exam HM-09 MCQ (10×1=10); 10 min.
27 July 2026 (Monday)	Chemistry (C-05)	H.Math (HM-25)	Daily Live Exam C-04 MCQ (10×1=10); 10 min. Daily Live Exam P-04 MCQ (10×1=10); 10 min.
28 July 2026 (Tuesday)	Physics (P-10)	H.Math (HM-26)	Daily Live Exam C-05 MCQ (10×1=10); 10 min. Daily Live Exam HM-25 MCQ (10×1=10); 10 min.
29 July 2026 (Wednesday)	H.Math (HM-10)	Zoology (Z-02)	Daily Live Exam P-10 MCQ (10×1=10); 10 min. Daily Live Exam HM-26 MCQ (10×1=10); 10 min.
30 July 2026 (Thursday)	Chemistry (C-06)	Botany (B-02)	Daily Live Exam HM-10 MCQ (10×1=10); 10 min. Daily Live Exam Z-02 MCQ (10×1=10); 10 min.
31 July 2026 (Friday) Chapter wise exam-01	**H. Math Problem Solving Class- 01**		
	Chemistry 2nd Paper Chapter- 01 [Part-01, Lecture C-01 to 05]; (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
01 August 2026 (Saturday)	Physics (P-05)	H.Math (HM-11)	Daily Live Exam C-06 MCQ (10×1=10); 10 min. Daily Live Exam B-02 MCQ (10×1=10); 10 min.
02 August 2026 (Sunday)	Chemistry (C-07)	Physics (P-06)	Daily Live Exam P-05 MCQ (10×1=10); 10 min. Daily Live Exam HM-11 MCQ (10×1=10); 10min.
03 August 2026 (Monday)	Chemistry (C-08)	H.Math (HM-27)	Daily Live Exam C-07 MCQ (10×1=10); 10 min. Daily Live Exam P-06 MCQ (10×1=10); 10 min.
04 August 2026 (Tuesday)	Physics (P-11)	H.Math (HM-28)	Daily Live Exam C-08 MCQ (10×1=10); 10 min. Daily Live Exam HM-27 MCQ (10×1=10); 10 min.
Online classes and exams will be closed on 05 August 2026 (Wednesday) on the occasion of "July Mass Uprising Day"			
06 August 2026 (Thursday)	Chemistry (C-09)	Botany (B-03)	Daily Live Exam P-11 MCQ (10×1=10); 10 min. Daily Live Exam HM-28 MCQ (10×1=10); 10 min.
07 August 2026 (Friday) Chapter wise exam-02	**Chemistry Problem Solving Class-01**	**Physics Problem Solving Class-01**	
	H.Math 2nd Paper Chapter- 05 Lecture- 23 to 28 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
08 August 2026 (Saturday)	Physics (P-07)	H.Math (HM-13)	Daily Live Exam C-09 MCQ (10×1=10); 10 min. Daily Live Exam B-03 MCQ (10×1=10); 10 min.
09 August 2026 (Sunday)	Chemistry (C-10)	Physics (P-08)	Daily Live Exam P-07 MCQ (10×1=10); 10 min. Daily Live Exam HM-13 MCQ (10×1=10); 10 min.
10 August 2026 (Monday)	Chemistry (C-11)	H.Math (HM-01)	Daily Live Exam C-10 MCQ (10×1=10); 10 min. Daily Live Exam P-08 MCQ (10×1=10); 10 min.
11 August 2026 (Tuesday)	Physics (P-12)	H.Math (HM-02)	Daily Live Exam C-11 MCQ (10×1=10); 10 min. Daily Live Exam HM-01 MCQ (10×1=10); 10 min.
12 August 2026 (Wednesday)	H.Math (HM-12)	Zoology (Z-03)	Daily Live Exam P-12 MCQ (10×1=10); 10 min. Daily Live Exam HM-02 MCQ (10×1=10); 10 min.
1 3 August 2026 (Thursday)	Chemistry (C-12)	Botany (B-04)	Daily Live Exam HM-12 MCQ (10×1=10); 10 min. Daily Live Exam Z-03 MCQ (10×1=10); 10 min.
14 August 2026 (Friday) Chapter wise exam-03	**Guideline seminar-01**		
	Physics 2nd Paper Chapter- 01 Lecture – 01 to 08 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
15 August 2026 (Saturday)	Physics (P-51)	H.Math (HM-15)	Daily Live Exam C-12 MCQ (10×1=10); 10 min. Daily Live Exam B-04 MCQ (10×1=10); 10 min.

16 August 2026 (Sunday)	Chemistry (C-13)	Physics (P-52)	Daily Live Exam P-51 MCQ (10×1=10); 10 min. Daily Live Exam HM-15 MCQ (10×1=10); 10 min.
17 August 2026 (Monday)	Chemistry (C-14)	H.Math (HM-03)	Daily Live Exam C-13 MCQ (10×1=10); 10 min. Daily Live Exam P-52 MCQ (10×1=10); 10 min.
18 August 2026 (Tuesday)	Physics (P-13)	H.Math (HM-04)	Daily Live Exam C-14 MCQ (10×1=10); 10 min. Daily Live Exam HM-03 MCQ (10×1=10); 10 min.
19 August 2026 (Wednesday)	H.Math (HM-14)	Zoology (Z-04)	Daily Live Exam P-13 MCQ (10×1=10); 10 min. Daily Live Exam HM-04 MCQ (10×1=10); 10 min.
20 August 2026 (Thursday)	Chemistry (C-15)	Zoology (Z-13)	Daily Live Exam HM-14 MCQ (10×1=10); 10 min. Daily Live Exam Z-04 MCQ (10×1=10); 10 min.
21 August2026 (Friday) **Chapter wise exam-04**	**H. Math Problem Solving Class- 02**		
	Botany 2nd Paper Chapter- 07 Lecture -B 01 to 04 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
22 August 2026 (Saturday)	Physics (P-53)	H.Math (HM-16)	Daily Live Exam C-15 MCQ (10×1=10); 10 min. Daily Live Exam Z-13 MCQ (10×1=10); 10 min.
23 August 2026 (Sunday)	Chemistry (C-16)	Physics (P-54)	Daily Live Exam P-53 MCQ (10×1=10); 10 min. Daily Live Exam HM-16 MCQ (10×1=10); 10 min.
24 August 2026 (Monday)	Chemistry (C-17)	H.Math (HM-05)	Daily Live Exam C-16 MCQ (10×1=10); 10 min. Daily Live Exam P-54 MCQ (10×1=10); 10 min.
25 August 2026 (Tuesday)	Physics (P-14)	H.Math (HM-06)	Daily Live Exam C-17 MCQ (10×1=10); 10 min. Daily Live Exam HM-05 MCQ (10×1=10); 10 min.
26 August 2026 (Wednesday)	H.Math (HM-17)	Zoology (Z-05)	Daily Live Exam P-14 MCQ (10×1=10); 10 min. Daily Live Exam HM-06 MCQ (10×1=10); 10 min.
27 August 2026 (Thursday)	Chemistry (C-18)	Zoology (Z-14)	Daily Live Exam HM-17 MCQ (10×1=10); 10 min. Daily Live Exam Z-05 MCQ (10×1=10); 10 min.
28 August 2026 (Friday) **Chapter wise exam-05**	**Biology Problem Solving Class-01**		
	Chemistry 2nd Paper Chapter- 01 [Part-02, Lecture C-07 to 10]; (CQ 2×10=20); Time: 50min & **(Pre-Admission MCQ 10×1=10); Time: 10min.**		
29 August 2026 (Saturday)	Physics (P-55)	H.Math (HM-18)	Daily Live Exam C-18 MCQ (10×1=10); 10 min. Daily Live Exam Z-14 MCQ (10×1=10); 10 min.
30 August 2026 (Sunday)	Chemistry (C-19)	Physics (P-56)	Daily Live Exam P-55 MCQ (10×1=10); 10 min. Daily Live Exam HM-18MCQ (10×1=10); 10 min.
31 August 2026 (Monday)	Chemistry (C-20)	H.Math (HM-39)	Daily Live Exam C-19 MCQ (10×1=10); 10 min. Daily Live Exam P-56 MCQ (10×1=10); 10 min.
01 September 2026 (Tuesday)	Physics (P-15)	H.Math (HM-40)	Daily Live Exam C-20 MCQ (10×1=10); 10 min. Daily Live Exam HM-39 MCQ (10×1=10); 10 min.
02 September 2026 (Wednesday)	H.Math (HM-19)	Zoology (Z-06)	Daily Live Exam P-15 MCQ (10×1=10); 10 min. Daily Live Exam HM-40 MCQ (10×1=10); 10 min.
03 September 2026 (Thursday)	Chemistry (C-21)	Zoology (Z-15)	Daily Live Exam HM-19 MCQ (10×1=10); 10 min. Daily Live Exam Z-06 MCQ (10×1=10); 10 min.
04 September 2026 (Friday) **Chapter wise exam-06**	**Chemistry Problem Solving Class-02**	**Physics Problem Solving Class-02**	
	Zoology 2nd Paper Chapter- 07 Lecture Z-01 to 06 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
The next class and exam routine-02 will be published...			
*****The routine can change or be modified in case of special necessities*****			

Online Class and Exam Procedure:

- To participate in classes and exams, visit **udvash.com** and click on the "**Join Now**" menu. **Log in** using your admitted registration number.
- **Daily Live Classes** will be held as per the schedule, with **two separate subject classes per day** at the mentioned date and time.
- **Daily Live Exams** will be available as per the schedule from **8:00am to 11:55pm**, where students can take the exam once per with **two separate subjects**. However, for additional practice, students can take the Practice Exam multiple times with the same syllabus.
- To watch recorded videos and PDFs of daily classes, use the "**Past Classes/Course & Content**" option.
- To access **Archive Classes & One Shot CQ-MCQ Classes**, use the "**Course & Content**" option.
- The **Q&A** option is available **24/7** to resolve subject-related queries after the class.
- All students enrolled in the Combo Batch can take chapter-based exams both online and at any nearby branch (**from 9:00am to 5:00pm**).
- To get updates quickly, join our Facebook group (**HSC & Admission উদ্ভাস-উন্মেষ**).

HSC 2nd Year Progressive Batch Syllabus-01

Physics 2nd Paper		
Chapter	**Lecture**	**Lecture-based discussion topics**
Chapter- 1 Thermodynamics	P-01	Principles of measurement of temperature, Thermal Equilibrium, Zero'th law of Thermodynamics, Measurement of Temperature, Method of two points, relation between various scales, Faulty thermometer, One point method.
	P-02	Thermal System, Thermal quantities, Thermal Processes, Heat, Work done and Internal Energy, First law of thermodynamics and general mathematical problems.
	P-03	CQ and Admission Standard questions on First law of thermodynamics, Molar Heat capacity, Thermal function of static and path, Isobaric Process, Isochoric Process.
	P-04	Isothermal Process, Adiabatic Process, General mathematical problems on Isothermal and Adiabatic process.

	P-05	CQ and Admission standard mathematical problems on Isothermal and Adiabatic process, Concept of Second law of thermodynamics, Thermal Engine, Efficiency of thermal engines, Reversible and Irreversible process, Factors of Irreversible process.
	P-06	Carnot Cycle, Efficiency of Carnot engine and general mathematical problem.
	P-07	CQ & Admission Standard mathematical problems on Engine, Refrigerator, Efficiency coefficient of refrigerator, Refrigeration cycle of Carnot, Mechanism of refrigerator, Entropy, Entropy in reversible and irreversible process, Change of Entropy for the change of physical state.
	P-08	Change of entropy in various process, Entropy and disorder, Thermal death of the universe.
Chapter- 2 Static Electricity	P-09	Concept of Charge, Nature of charge, Quantization of charge, Conservation of charge, Surface Charge density, Coulomb's Law, Vector format of Coulomb's Law, Limitations of Coulombs\'s Law.
	P-10	Electric Field on a point for point charge, Law of superposition of electricity intensity, Field line, Uniform electric field, Electric field intensity, General Mathematical problems for Electric intensity.
	P-11	CQ and Admission standard mathematical problems for Electric force and field intensity.
	P-12	Electric Potential, Equations of electric potential, Potential Difference, Relation of potential difference with intensity, Flow of charge.
	P-13	CQ and Admission standard Mathematical Problems for Potential, Electric potential and intensity of a charged conductor sphere, Plane density and electric intensity.
	P-14	Dipole moment, Potential and intensity for a dipole.
	P-15	Insulator and dielectric, Capacitor and Capacitance, Spherical and Parallel plate capacitor, Connection of capacitors, energy stored in capacitor, energy stored in capacitor, capacitor related general mathematical problem.
Chapter- 8 Introduction of Modern Physics	P-51	Concept of modern physics, Intertial and non-inertial reference frame, Relation between various inertial reference frame, Michelson-Morley's experiment, Special theory of relativity, Galiliam transformation, Lorentz transformation.
	P-52	Time dilation, Length contraction, Relativity of mass, General mathematical problems related to relativity.
	P-53	CQ & Admission Standard mathematical problems related to relativity, Relation of mass-energy, Momentum of light, Fundamental force, Travelling in space, Black-body radiation and atomic mass unit.
	P-54	Photo-electric effects, Limitations of electromagnetic theory of light, Theory of Photon and photoelectric effect.
	P-55	Stopping potential, Mathematical Problems, X-ray, Producing X-ray, Properties and types of x-ray.
	P-56	Mathematical Problems on X-rays and Photoelectric Effect, De Broglie's Matter Waves, Wave-Particle Duality, Mathematical Examples.

Chemistry 2nd Paper		
Chapter	**Lecture**	**Lecture-based discussion topics**
Chapter- 1 Environmental Chemistry	C-01	as, Components of atmosphere, Atmospheric temperature, Effect of pressure and density, Cyclone and tidal bore
	C-02	Boyle's law, Charle's law, Avogadro's law, Gay-Lussac's law, related math
	C-03	Combined law, Ideal gas equation (PV = nRT), Explanation of R, related math
	C-04	Dalton's law of partial pressure, Graham's law of diffusion.
	C-05	Diffusion, Effusion, Rate of diffusion and formula, Kinetic theory of gas, Postulates of kinetic theory, Calculation of kinetic energy.
	C-06	Real gas, Ideal gas, Deviation, Coefficient of compressibility, Amagat's curve, Vander Walls equation.
	C-07	Gas cylinderisation, Reactions occurred during lightning, Fixation of N_2 in soil.
	C-08	Greenhouse gas, Source of greenhouse gas, Effect of greenhouse gas, Introduction to CFC and its use, origination of O_3 layer, Damage of O_3 layer.
	C-09	Concept related to acid base- Acid base theory, Arrhenius concept, Bronsted-Lowry concept (Theory, conjugate), Luis theory, Acid rain, Cause of acid rain, Effect of acid rain, Prevention of acid rain.
	C-10	Source of surface water, Importance of surface water, Criteria of purity of Surface water, Hardness, pH, DO, BOD, COD, TDS, Water pollution, Reason and cause of water pollution, Natural pollutant, Arsenic pollutant, Effect of water pollution.
Chapter- 2 Organic Chemistry	C-11	Introduction and Classification of Organic Chemistry- Introduction to organic compounds, Hydrocarbon and organic compounds, Roll of carbon in hydrocarbon, Classification of organic compounds, Homologous series, Functional group.
	C-12	Nomenclature of Organic Compounds- (Tribal system, derived system, IUPAC system)
	C-13	Isomerism- Introduction, Classification, Structural isomerism, Types of structural isomerism (Chain isomerism, Position isomerism Functional group isomerism, Metamerism, Tautomerism),
	C-14	Geometric isomerism (cis-trans isomerism, E-Z isomerism, Syn-Anti isomerism)
	C-15	Stereo Isomerism (Cyral carbon, Enantiomer, Diastereomer, Racemic mixture)
	C-16	Technique of Organic Reaction- Division of bond (uniform and ununiform), Electrophile, Nucleophile, Carbocation, Carbanion.
	C-17	Aliphatic hydrocarbon- Saturated hydrocarbon (Alkane and everything of alkane)
	C-18	Unsaturated hydrocarbon (Alkene and everything of alkene)
	C-19	Unsaturated hydrocarbon (Alkyne and everything of alkyne)
	C-20	Benzene and Its Discussion, Source of Benzene, Characteristics and specialty of benzene, Aromaticity and Huckle law.
	C-21	Preparation and technique of benzene reaction, Homologous of benzene.

H.Math 2nd Paper		
Chapter	**Lecture**	**Lecture-based discussion topics**
Chapter- 1 Real number and inequality	HM-01	Exercise-1.1 - Classification of real numbers, sets-subsets of real numbers, geometric representation, postulates of real numbers, concept of inequality and postulates related to inequality.
	HM-02	Exercise-1.1 – Interval, absolute value, solution of inequalities related to absolute value, proof involving absolute value.
	HM-03	Exercise-1.1 Completeness of real numbers, set bounded above, set bounded below (Supremum & Infimum), Exercise 1.2 Solution of inequalities with one variable (linear and quadratic).
	HM-04	Exercise 1.2 Solution of inequalities with one variable (polynomial), linear inequalities with two variables and solution with graph.
Chapter- 2 Linear Programming	HM-05	Exercise-2 – Drawing graph from linear inequalities, solution region, general problems with bounded solution region.
	HM-06	Exercise-2 - Practical problems with bounded solution region, open solution region, model of linear programs, advantages and use

Chapter- 3 Complex numbers	HM-07	Exercise-3; Concept and significance of i, power and series of i, rotation by i.
	HM-08	Exercise-3; Real axis and imaginary axis, previous introduction to complex numbers, Argand diagram of complex numbers, modulus and argument of complex numbers.
	HM-09	Exercise-3; Polar form of complex numbers. Algebraic calculation of complex numbers, addition, subtraction, multiplication and division of complex numbers, adjoint complex numbers.
	HM-10	Exercise-3; Religion of complex numbers, expression in the form A+iB.
	HM-11	Exercise-3; Square root and quadratic root of complex numbers.
	HM-12	Exercise-3; Cube root and sexagesimal root of complex numbers. ω related series, ω related expression value determination and analysis of product.
	HM-13	Exercise-3; Mathematical significance of $\|z_1 - z_2\|$. Geometric application of complex numbers (transmission path) related.
	HM-14	Exercise-3; Proof and determination of values under conditions related.
Chapter- 4 Polynomials and Polynomial equations	HM-15	Exercise-4; Polynomial functions and polynomial equations, roots of polynomial equations, some theorems related to polynomials, solving quadratic equations with the help of factors.
	HM-16	Exercise-4; General solution of quadratic equations, discriminant, determining the nature of roots of quadratic equations
	HM-17	Exercise-4; Properties of roots in terms of coefficients, root-coefficient relationship of quadratic equations.
	HM-18	Exercise-4; Polynomial equations with real coefficients, polynomial equations with rational coefficients, forming equations from roots.
	HM-19	Exercise-4; Determining the x-intercept of a polynomial function related, maximum and minimum values of a quadratic polynomial function, determining the line of symmetry of a quadratic function. Drawing a graph of any quadratic function.
Chapter- 5 Binomial expansions	HM-23	Exercise-5.1; Basic concepts of binomial expansion, Pascal's triangle, binomial theorem, proof of binomial expansion theorem in ascending order.
	HM-24	Exercise-5.1; Number of terms, algebraic sum of coefficients of expansion, properties of coefficients of binomial expansion, common terms.
	HM-25	Exercise-5.1; Terms without variables in expansion, middle term, equidistant terms, ratio of two consecutive terms related, coefficients of two terms being equal related.
	HM-26	Exercise-5.2; Concept of binomial expansion in infinite series, condition of expansion for $(a + x)^n$.
	HM-27	Exercise-5.2; Convergence of binomial series related, finding common terms.
	HM-28	Exercise-5.2; Finding coefficients related, finding sum of series using expansion, largest possible term.
Chapter- 7 Inverse Trigonometric Functions and Trigonometric Equations	HM-39	Exercise-7.1; Conditions and graph of inverse trigonometric function (proof of formula, and examples), Arc function.
	HM-40	Exercise-7.1; Value of inverse trigonometric function, domain range of inverse trigonometric function, some necessary relations.

Botany		
Chapter	**Lecture**	**Lecture-based discussion topics**
Chapter- 07 Gymnosperms and Angiosperms	B-01	Gymnosperms (Introduction, characteristics), *Cycas* (Characteristics, Structure, Reproduction)
	B-02	Angiosperms (Introduction, characteristics), Differences between Gymnosperm and angiosperm, Introduction to angiosperm families, Characteristics, Root, Stem, Leaf.
	B-03	Inflorescence, Aestivation, Placentation, Fruits, Floral Formula, Floral Diagram.
	B-04	Poaceae Family, Malvaceae Family, Differences between Poaceae and Malvaceae family, Differences between Monocot plant and Dicot plant.

Zoology		
Chapter	**Lecture**	**Lecture-based discussion topics**
Chapter- 07 Human Physiology: Locomotion and Body Movement	Z-01	Skeletal system (classification, functions, components, parts), bones of the adult human skeleton, axial skeleton (skull).
	Z-02	Axial skeleton (vertebral column, ribcage).
	Z-03	Appendicular skeleton.
	Z-04	Bone, Haversian system, cartilage, types of cartilage.
	Z-05	Muscle tissue, types of muscles, muscles can pull but cannot push, functions of skeleton and the 'rods and lever system'
	Z-06	Bone and muscle coordination in knee movement, bone fracture and first aid, joint injuries and first aid.
Chapter- 09 Continuation of human life	Z-13	Reproductive system, male reproductive system, female reproductive system, different stages and phases of reproduction, puberty.
	Z-14	Menstrual cycle, formation of gamete (spermatogenesis, sperm formation, oogenesis, formation of ovum).
	Z-15	Fertilization, implantation, placenta, foetal membranes, human embryogenesis, embryo and fetus development.