HSC 2nd Year Academic Progressive Batch [Online/Combo]

Class & Exam Routine-1 (English Version)

Date & Day	Live Class: 1 2:30pm	Live Class: 2 6:30pm	Live Exam	Online: From 8:00am to 11:55pm Offline: From 9:00am to 5:00pm
06 July 2025 (Sunday) Orientation Class [Evening-7:30pm]			
07 July 2025 (Monday)	C-01 Chemistry: Chapter-01	HM-01 H.Math: Chapter-01		Basic Introductory Exam MCQ (10×1=10); 10 min.
08 July 2025 (Tuesday)	C-02 Chemistry: Chapter-01	Z-01 Zoology: Chapter-07		Daily Live Exam C-01 MCQ (10×1=10); 10 min. Daily Live Exam HM-01 MCQ (10×1=10); 10 min.
09 July 2025 (Wednesday)	HM-29 H.Math: Chapter-06	P-01 Physics: Chapter-01		Daily Live Exam C-02 MCQ (10×1=10); 10 min. Daily Live Exam Z-01 MCQ (10×1=10); 10 min.
10 July 2025 (Thursday)	Z-02 Zoology: Chapter-07	P-02 Physics: Chapter-01		Daily Live Exam HM-29 MCQ (10×1=10); 10 min. Daily Live Exam P-01 MCQ (10×1=10); 10 min.
12 July 2025 (Saturday)	HM-30 H.Math: Chapter-06	P-03 Physics: Chapter-01		Daily Live Exam Z-02 MCQ (10×1=10); 10 min. Daily Live Exam P-02 MCQ (10×1=10); 10 min.
13 July 2025 (Sunday)	B-01 Botany: Chapter-07	C-03 Chemistry: Chapter-01		Daily Live Exam HM-30 MCQ (10×1=10); 10 min. Daily Live Exam P-03 MCQ (10×1=10); 10 min.
14 July 2025 (Monday)	C-04 Chemistry: Chapter-01	HM-02 H.Math: Chapter-01		Daily Live Exam B-01 MCQ (10×1=10); 10 min. Daily Live Exam C-03 MCQ (10×1=10); 10 min.
15 July 2025 (Tuesday)	C-05 Chemistry: Chapter-01	Z-03 Zoology: Chapter-07		Daily Live Exam C-04 MCQ (10×1=10); 10 min. Daily Live Exam HM-02 MCQ (10×1=10); 10 min.
16 July 2025 (Wednesday)	HM-31 H.Math: Chapter-06	P-04 Physics: Chapter-01		Daily Live Exam C-05 MCQ (10×1=10); 10 min. Daily Live Exam Z-03 MCQ (10×1=10); 10 min.
17 July 2025 (Thursday)	Z-04 Zoology: Chapter-07	P-19 Physics: Chapter-03		Daily Live Exam HM-31 MCQ (10×1=10); 10 min. Daily Live Exam P-04 MCQ (10×1=10); 10 min.
19 July 2025 (Saturday)	HM-32 H.Math: Chapter-06	P-05 Physics: Chapter-01		Daily Live Exam Z-04 MCQ (10×1=10); 10 min. Daily Live Exam P-20 MCQ (10×1=10); 10 min.
20 July 2025 (Sunday)	C-06 Chemistry: Chapter-01	B-02 Botany: Chapter-07		Daily Live Exam HM-32 MCQ (10×1=10); 10 min. Daily Live Exam P-05 MCQ (10×1=10); 10 min.
Online classes and exams will be closed on July 21 and 22, 2025.			
23 July 2025 (Wednesday)	HM-33 H.Math: Chapter-06	P-06 Physics: Chapter-01		Daily Live Exam C-06 MCQ (10×1=10); 10 min. Daily Live Exam B-02 MCQ (10×1=10); 10 min.
24 July 2025 (Thursday)	Z-05 Zoology: Chapter-07	P-20 Physics: Chapter-03		Daily Live Exam HM-33 MCQ (10×1=10); 10 min. Daily Live Exam P-06 MCQ (10×1=10); 10 min.
25 July 2025 (Friday) Chapter-wise Exam-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.			
26 July 2025 (Saturday)	HM-34 H.Math: Chapter-06	P-07 Physics: Chapter-01		Daily Live Exam Z-05 MCQ (10×1=10); 10 min. Daily Live Exam P-20 MCQ (10×1=10); 10 min.
27 July 2025 (Sunday)	B-03 Botany: Chapter-07	C-07 Chemistry: Chapter-01		Daily Live Exam HM-34 MCQ (10×1=10); 10 min. Daily Live Exam P-07 MCQ (10×1=10); 10 min.
28 July 2025 (Monday)	C-08 Chemistry: Chapter-01	HM-03 H.Math: Chapter-01		Daily Live Exam B-03 MCQ (10×1=10); 10 min. Daily Live Exam C-07 MCQ (10×1=10); 10 min.
29 July 2025 (Tuesday)	C-09 Chemistry: Chapter-01	Z-06 Zoology: Chapter-07		Daily Live Exam C-08 MCQ (10×1=10); 10 min. Daily Live Exam HM-03 MCQ (10×1=10); 10 min.
30 July 2025 (Wednesday)	HM-04 H.Math: Chapter-01	P-08 Physics: Chapter-01		Daily Live Exam C-09 MCQ (10×1=10); 10 min. Daily Live Exam Z-05 MCQ (10×1=10); 10 min.
31 July 2025 (Thursday)	B-05 Botany: Chapter-08	P-21 Physics: Chapter-03		Daily Live Exam HM-04 MCQ (10×1=10); 10 min. Daily Live Exam P-08 MCQ (10×1=10); 10 min.
01 August 2025 (Friday) Chapter-wise Exam-02	Biology Problem Solving Class-01 (Evening- 6:30pm) Zoology Chapter-07 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.			
The next class and exam routine (Part-02) will be published…			
The routine can change or be modified in case of special necessities			

- 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 subject**. 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 Academic Progressive Batch (Class & Exam Syllabus-1)

Physics 2nd Paper Reference Book: ম্যালসলাল TEXT		
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-3 Current Electricity	P-19	Current flow, Direction of current flow, Drifting velocity of electron, Current density, Ohm's Law, Resistance, Conductivity, Effect of temperature on resistance, Conductivity coefficient, Electric cell, Electromotive force of a cell, Internal resistance of a cell.
	P-20	Electric Circuit, Resistance combination, Series combination, Parallel combination, Equivalent resistance, Work done by electricity and electric force, Joule's thermal law.
	P-21	Voltage divider law, Current divider law, Shunt, Relation between shunt current and galvanometer current, Use of shunt on ammeter, Increasing the range of ammeter, Use of Shunt on voltmeter, Increasing the range of voltmeter.

Chemistry 2nd Paper Reference Book: ম্যালসলাল TEXT		
Chapter	**Lecture**	**Lecture-based discussion topics**
Chapter-1 Environmental Chemistry	C-01	Gas, 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.

H.Math 2nd Paper Reference Book: প্যারালাল TEXT		
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-6 Conics	HM-29	Exercise-6.1; Introduction and properties of conic (section of conic, different elements of conic, eccentricity), parabola, standard equation of parabola.
	HM-30	Exercise-6.1; Axis shift, focal distance.
	HM-31	Exercise-6.1; Parametric equation of parabola, polar equation of parabola, determining equation of parabola from definition of conic.
	HM-32	Exercise-6.1; Minimum distance of parabola from external point, determining equation of parabola from end point of latus rectum, application of parabola equation in real life problems.
	HM-33	Exercise-6.2; Ellipse, standard equation of parabola, axis shift.
	HM-34	Exercise-6.2; Determine the equation of the ellipse from various elements, $SP + S'P =$ length of the major axis, parametric coordinates of the ellipse.

Botany Reference Book: প্যারালাল TEXT		
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.
Chapter-08 Tissue and Tissue System	B-05	Meristematic Tissue, Types of meristematic tissue, Differences between permanent and meristematic tissue

Zoology Reference Book: প্যারালাল TEXT		
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.