HSC 1st Year Academic Program
Progressive Batch
[Online/Combo]
(Two subject class per day)

Class & Exam Routine [Part-01]

Date & Day	Live Class: 1	Live Class: 2	Live Exam	Online: From 8:00am to 11:55pm
	2:30 pm	6:45 pm		Offline: From 9:00am to 5:00pm
16 September 2025 (Tuesday) Orientation Class [7:00 PM]				
17 September 2025 (Wednesday)	**P-03** Physics: Chapter-2	**B-01** Botany: Chapter-1	**Basic Introductory** Exam MCQ (10×1=10); 10 min.	
18 September 2025 (Thursday)	**P-15** Physics: Chapter-3	**B-02** Botany: Chapter-1	Daily Live Exam **P-03** MCQ (10×1=10); 10 min. Daily Live Exam **B-01** MCQ (10×1=10); 10 min.	
21 September 2025 (Sunday)	**C-05** Chemistry: Chapter-2	**HM-01** H.Math: Chapter-1	Daily Live Exam **P-15** MCQ (10×1=10); 10 min. Daily Live Exam **B-02** MCQ (10×1=10); 10 min.	
22 September 2025 (Monday)	**HM-13** H.Math: Chapter-3	**C-06** Chemistry: Chapter-2	Daily Live Exam **C-05** MCQ (10×1=10); 10 min. Daily Live Exam **HM-01** MCQ (10×1=10); 10 min.	
23 September 2025 (Tuesday)	**HM-14** H.Math: Chapter-3	**P-04** Physics: Chapter-2	Daily Live Exam **HM-13** MCQ (10×1=10); 10 min. Daily Live Exam **C-06** MCQ (10×1=10); 10 min.	
24 September 2025 (Wednesday)	**P-05** Physics: Chapter-2	**B-03** Botany: Chapter-1	Daily Live Exam **HM-14** MCQ (10×1=10); 10 min. Daily Live Exam **P-04** MCQ (10×1=10); 10 min.	
25 September 2025 (Thursday)	**P-16** Physics: Chapter-3	**B-04** Botany: Chapter-1	Daily Live Exam **P-05** MCQ (10×1=10); 10 min. Daily Live Exam **B-03** MCQ (10×1=10); 10 min.	
28 September 2025 (Sunday)	**C-07** Chemistry: Chapter-2	**HM-02** H.Math: Chapter-1	Daily Live Exam **P-16** MCQ (10×1=10); 10 min. Daily Live Exam **B-04** MCQ (10×1=10); 10 min.	
29 September 2025 (Monday)	**HM-15** H.Math: Chapter-3	**C-08** Chemistry: Chapter-2	Daily Live Exam **C-07** MCQ (10×1=10); 10 min. Daily Live Exam **HM-02** MCQ (10×1=10); 10 min.	
Online classes and exams will be closed from September 30 to October 04 on the occasion of Sharadiya Durga Puja.				
05 October 2025 (Sunday)	**C-09** Chemistry: Chapter-2	**HM-03** H.Math: Chapter-1	Daily Live Exam **HM-15** MCQ (10×1=10); 10 min. Daily Live Exam **C-08** MCQ (10×1=10); 10 min.	
06 October 2025 (Monday)	**HM-16** H.Math: Chapter-3	**C-10** Chemistry: Chapter-2	Daily Live Exam **C-09** MCQ (10×1=10); 10 min. Daily Live Exam **HM-03** MCQ (10×1=10); 10 min.	
07 October 2025 (Tuesday)	**HM-17** H.Math: Chapter-3	**P-06** Physics: Chapter-2	Daily Live Exam **HM-16** MCQ (10×1=10); 10 min. Daily Live Exam **C-10** MCQ (10×1=10); 10 min.	
08 October 2025 (Wednesday)	**P-07** Physics: Chapter-2	**B-05** Botany: Chapter-1	Daily Live Exam **HM-17** MCQ (10×1=10); 10 min. Daily Live Exam **P-06** MCQ (10×1=10); 10 min.	
09 October 2025 (Thursday)	**P-17** Physics: Chapter-3	**B-06** Botany: Chapter-1	Daily Live Exam **P-07** MCQ (10×1=10); 10 min. Daily Live Exam **B-05** MCQ (10×1=10); 10 min.	
12 October 2025 (Sunday)	**C-11** Chemistry: Chapter-2	**HM-04** H.Math: Chapter-1	Daily Live Exam **P-17** MCQ (10×1=10); 10 min. Daily Live Exam **B-06** MCQ (10×1=10); 10 min.	
13 October 2025 (Monday)	**HM-18** H.Math: Chapter-3	**C-12** Chemistry: Chapter-2	Daily Live Exam **C-11** MCQ (10×1=10); 10 min. Daily Live Exam **HM-04** MCQ (10×1=10); 10 min.	
14 October 2025 (Tuesday)	**HM-19** H.Math: Chapter-3	**P-08** Physics: Chapter-2	Daily Live Exam **HM-18** MCQ (10×1=10); 10 min. Daily Live Exam **C-12** MCQ (10×1=10); 10 min.	
15 October 2025 (Wednesday)	**P-09** Physics: Chapter-2	**B-07** Botany: Chapter-1	Daily Live Exam **HM-19** MCQ (10×1=10); 10 min. Daily Live Exam **P-08** MCQ (10×1=10); 10 min.	
16 October 2025 (Thursday)	**P-18** Physics: Chapter-3	**B-08** Botany: Chapter-1	Daily Live Exam **P-09** MCQ (10×1=10); 10 min. Daily Live Exam **B-07** MCQ (10×1=10); 10 min.	
17 October 2025 (Friday)	Physics Problem Solving Class-01 (Evening- 6:30 PM)			
18 October 2025 Saturday Chapter-wise Exam-01	H.Math 1st Paper Chapter-03 [Part-01 Lecture HM-11 to 18]; (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.			
19 October 2025 (Sunday)	**C-13** Chemistry: Chapter-2	**HM-05** H.Math: Chapter-1	Daily Live Exam **P-18** MCQ (10×1=10); 10 min. Daily Live Exam **B-08** MCQ (10×1=10); 10 min.	
20 October 2025 (Monday)	**HM-20** H.Math: Chapter-3	**C-14** Chemistry: Chapter-2	Daily Live Exam **C-13** MCQ (10×1=10); 10 min. Daily Live Exam **HM-05** MCQ (10×1=10); 10 min.	
21 October 2025 (Tuesday)	**HM-21** H.Math: Chapter-3	**P-10** Physics: Chapter-2	Daily Live Exam **HM-20** MCQ (10×1=10); 10 min. Daily Live Exam **C-14** MCQ (10×1=10); 10 min.	
22 October 2025 (Wednesday)	**P-11** Physics: Chapter-2	**Z-01** Zoology: Chapter-1	Daily Live Exam **HM-21** MCQ (10×1=10); 10 min. Daily Live Exam **P-10** MCQ (10×1=10); 10 min.	

23 October 2025 (Thursday)	**P-19** Physics: Chapter-3	**Z-02** Zoology: Chapter-1	Daily Live Exam **P-11** MCQ (10×1=10); 10 min. Daily Live Exam **Z-01** MCQ (10×1=10); 10 min.
24 October 2025 (Friday)	**H.Math Problem Solving Class-01 (Evening- 6:30 PM)**		
25 October 2025 Saturday **Chapter-wise Exam-02**	**Chemistry 1st Paper Chapter-02 [Part-01 Lecture C-05 to 12]; (CQ 2×10=20); Time: 50min &** **(Pre-Admission MCQ 10×1=10); Time: 10min.**		
26 October 2025 (Sunday)	**C-15** Chemistry: Chapter-2	**HM-06** H.Math: Chapter-1	Daily Live Exam **P-19** MCQ (10×1=10); 10 min. Daily Live Exam **Z-02** MCQ (10×1=10); 10 min.
27 October 2025 (Monday)	**HM-22** H.Math: Chapter-3	**C-16** Chemistry: Chapter-2	Daily Live Exam **C-15** MCQ (10×1=10); 10 min. Daily Live Exam **HM-06** MCQ (10×1=10); 10 min.
28 October 2025 (Tuesday)	**HM-23** H.Math: Chapter-3	**P-12** Physics: Chapter-2	Daily Live Exam **HM-22** MCQ (10×1=10); 10 min. Daily Live Exam **C-16** MCQ (10×1=10); 10 min.
29 October 2025 (Wednesday)	**P-13** Physics: Chapter-2	**Z-03** Zoology: Chapter-1	Daily Live Exam **HM-23** MCQ (10×1=10); 10 min. Daily Live Exam **P-12** MCQ (10×1=10); 10 min.
30 October 2025 (Thursday)	**P-20** Physics: Chapter-3	**Z-04** Zoology: Chapter-1	Daily Live Exam **P-13** MCQ (10×1=10); 10 min. Daily Live Exam **Z-03** MCQ (10×1=10); 10 min.
31 October 2025 (Friday)	**Guideline Seminar-01**		
01 November-2025 (Satarday) **Chapter-wise Exam-03**	**Botany Chapter-01 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**		
The next class and exam routine (Part-03) 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 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 1st Year Academic Program Progressive Batch (Class & Exam Syllabus-01)

Physics 1st paper Reference Book: **প্রান্তলাল TEXT**		
Chapter	**Leccture**	**Physics 1st paper Reference Book:**
Chapter-2 Vector	P-03	Quantities, Scalar quantities and vector quantities, Expression of vector quantities, Different types of vectors, Addition of vectors: Resultant, Triangle formula, polygon formula
	P-04	Law of parallelogram, Magnitude of the Resultant of two vectors, determination of the direction of the resultant, some special cases of the Law of parallelogram.
	P-05	Some properties of vector addition, commutative formula, conjunction formula, distributive formula, components of vectors, finding the product of more than two vectors using components.
	P-06	uses of vector components, Towing a Boat, lawn roller, river and boat concepts.
	P-07	CQ & Admission Standard Questions related to River and Boat
	P-08	Vector Subtraction, Relative velocity.
	P-09	Concept of vector in Cartesian coordinate system, addition and subtraction of vectors resolution in components, CQ & Admission Standard Problems on relative velocity
	P-10	Determining position vectors, vectors in three-dimensional coordinate systems, product of vectors, product of vectors with scalar quantities
	P-11	Dot product of vectors, CQ & Admission standard problems
	P-12	Cross product of vectors, CQ & Admission standard problems
	P-13	Calculus, differentiation, integration, functions with multiple variables, and partial differentiation.
Chapter-3 Dynamics	P-15	Frame of reference, Rest and motion, distance and displacement, average velocity and average speed, instantaneous velocity and instantaneous speed, acceleration, equations of motion for uniform acceleration in one dimension.
	P-16	CQ & Admission Standard Problems on Equation of Motion, Describing Motion with the help of graphs, Concepts of slope and area in describing motion

	P-17	Motion of free-falling bodies, vertical motion, equations for thrown body, Galileo's laws derived from the equations of motion.
	P-18	CQ & Admission Standard Problems related to Vertical Motion, Motion of objects along curved paths, vector representation of equations of motion for uniformly accelerated motion, projectile motion, equation of projectile trajectory, equations related to projectile.
	P-19	CQ & Admission Standard Problems related to projectile motion.
	P-20	Circular motion, Various quantities related to circular motion, centripetal acceleration, centripetal acceleration formulae, net acceleration, angular equations of motion.

Chemistry 1st Reference Book: मातालाल TEXT		
Chapter	**Lecture**	**Lecture-based discussion**
Chapter-2 Qualitative Chemistry Introduction	C-05	Fundamental particles of atoms, introduction- electron, proton and neutrons discussion, atomic mass unit, atomic expression, isotope, isotone, isobar, isoelectronic, isomer, Radioactive isotope and nuclear reaction (Transmutation, fission and fusion)
	C-06	Atomic models- Rutherford's atomic model discussion.
	C-07	Atomic models- Bohr's atomic model discussion.
	C-08	Application of atomic models and Quantum Mechanics-Derivation for v, r, n, E from Bohr's model, Related Math, De Broglie's equation, Heisenberg's uncertainty principle, Schrodinger's wave equation, Related Math.
	C-09	Quantum Number- Principal Quantum number, Subsidiary Quantum Number, Magnetic Quantum Number, Spin Quantum Number, Significance of Quantum Number
	C-10	Orbit and Orbital Discussion, Quantum Subshell shapes and discussion, Calculation of total orbital and electron number.
	C-11	Electronic Configuration- Aufbau Principle, Hund's Rule, Pauli's Exclusion Principle, e^- configuration of compounds and ions, stability of electronic configuration.
	C-12	Electromagnetic spectrum- Discussion, quantities related to radiation, regions of electromagnetic ray, classification of spectrum, identification of compounds using spectrum.
	C-13	spectrum of H atom + Rydberg Discussions, Related Math.
	C-14	Lines of spectrum, Uses of UV in fake money and passport identification, Uses of IR ray in medical science, Use of MRI in diagnosis.
	C-15	Solubility and Solubility Product- Mixture and Solution, Solubility, Factors influencing solubility.
	C-16	solubility products, ionic product, Related Math.

H.Ma H.Math 1st Paper Reference Book: मातालाल TEXT		
Chapter	**Lecture**	**Lecture-based discussion**
Chapter-1 Matrix & Determinant	HM-01	Exercise - 1.1; Types of matrix, problems related to types of matrix.
	HM-02	Exercise - 1.1; Addition and subtraction of matrix, problems related to addition and subtraction of matrix, equality of matrix, problems related to equality of matrix. Scalar multiplication of matrices.
	HM-03	Exercise - 1.1; Matrix multiplication, problems related to matrix multiplication, matrix exponential,
	HM-04	Exercise - 1.1; Problems related to matrix polynomials, Some special matrices, properties of some special matrix related to trace, matrix in real life, matrix problems based on real life.
	HM-05	Exercise - 1.2; Minors and co-factors of determinant, singular and non-singular matrix and problems related to singular and non-singular matrix.
	HM-06	Exercise - 1.2; Inverse matrix, problems related to inverse matrix, properties of determinant.
Chapter-3 Straight Line	HM-13	Exercise – 3.1; Coordinate system and distance between two points, Cartesian coordinate system, polar coordinate system, transformation of coordinate systems.
	HM-14	Exercise – 3.1; Distance between two points, Problems related to distance between two points.
	HM-15	Exercise – 3.2; Division formula, related to coordinates of point of internal division / external division.
	HM-16	Exercise – 3.2; Related to parallelogram/square/triangle/circle, Exercise – 3.3; Area of polygon, Determining the area of a triangle by the coordinates of the vertices of a triangle.
	HM-17	Exercise – 3.3; Shifting parallel axes, Determining the area, Conditions for three points to be collinear, Determining the ratio of division of one line segment by another.
	HM-18	Exercise – 3.4; Locus, Determining the equation of locus.
	HM-19	Exercise – 3.5; Problems related to slope and equation of a straight line.
	HM-20	Exercise – 3.5; Related to the condition that two equations they refer to the same straight line, Conversion from general equation of a straight line to equations of different forms, Intersection of two straight lines, Area related.

	HM-21	Exercise – 3.5; locus related. Exercise – 3.6; Related to condition for three straight lines to be congruent, related to two parallel straight lines, related to parallel straight lines of a straight line.
	HM-22	Exercise – 3.6; Related to two perpendicular straight lines, related to equation of a straight line to the intersection of two straight lines.
	HM-23	Exercise – 3.6; Internal angle between two straight lines, Different types of centers.

Botany Reference Book: স্যারলাল TEXT		
Chapter	**Lecture**	**Lecture-based discussion**
Chapter 1 Cell and Its structure	B-01	Cell, Endosymbiosis, Characteristics of the Cell, Cytology, Cell Theory, Types of Cell, Plant Cell, Cell Wall
	B-02	Protoplast, Cell Membrane, Cytoplasm and organelles, Ribosome
	B-03	Endoplasmic Reticulum, Golgi Body, Lysosome, Mitochondria
	B-04	Plastid, Centriole, Cytoskeleton, Peroxisome, Glyoxisome, Cell Vacuole
	B-05	Nucleus, Ergastic Substances of the Cell, Chromosome
	B-06	Hereditary Materials, DNA, RNA
	B-07	Replication, Transcription, Reverse Transcription
	B-08	Translation, Central Dogma of Biology, Gene, Genetic Code

Botany Reference Book: স্যারলাল TEXT		
Chapter	**Lecture**	**Lecture-based discussion**
Chapter-1 Animal Diversity and Classification	Z-01	Animal Diversity: types of animal diversity, classification of animal kingdom, Basis of animal classification, Principles of animal classification
	Z-02	Nomenclature of animals, principles of nomenclature of animals, classification of animal kingdom, major phyla of animal kingdom: Non-chordate
	Z-03	Porifera, Cnidaria, Platyheminthes, Nematoda.
	Z-04	Mollusca, Annelida, Arthropoda, Echinodermata.