

HSC 1st Year Academic Program Pioneer Batch

[Online/Combo]

Class & Exam Routine Part-02

Date & Day	Live Class: 1	Live Class: 2	Live Exam	Online: From 8:00am to 11:55pm
	2:30 pm	6:30pm		Offline: From 9:00am to 5:00pm
02 July 2025 (Wednesday)	C-12 Chemistry: Chapter-02	HM-19 H.Math: Chapter-03	Daily Live Exam HM-18 MCQ (10×1=10); 10 min. Daily Live Exam B-06 MCQ (10×1=10); 10 min.	
03 July 2025 (Thursday)	Physics Problem Solving Class-01 (Evening- 6:30 PM)			
04 July 2025 (Friday)	P-10 Physics: Chapter-02	B-07 Botany: Chapter-01	Daily Live Exam C-12 MCQ (10×1=10); 10 min. Daily Live Exam HM-19 MCQ (10×1=10); 10 min.	
05 July 2025 (Saturday)	P-11 Physics: Chapter-02	C-13 Chemistry: Chapter-02	Daily Live Exam P-10 MCQ (10×1=10); 10 min. Daily Live Exam B-07 MCQ (10×1=10); 10 min.	
06 July 2025 (Sunday) Chapter-wise Exam-01	H.Math 1st Paper Chapter-03 [Part-01 Lecture HM-13 to 18]; (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.			
07 July 2025 (Monday)	HM-20: H.Math: Chapter-03	B-08 Botany: Chapter-01	Daily Live Exam P-11 MCQ (10×1=10); 10 min. Daily Live Exam C-13 MCQ (10×1=10); 10 min.	
08 July 2025 (Tuesday) 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.			
09 July 2025 (Wednesday))	C-14 Chemistry: Chapter-02	HM-21 H.Math: Chapter-03	Daily Live Exam HM-20 MCQ (10×1=10); 10 min. Daily Live Exam B-08 MCQ (10×1=10); 10 min.	
10 July 2025 (Thursday)	Chemistry Problem Solving Class-01 (Evening- 6:30 PM)			
11 July 2025 (Friday)	P-12 Physics: Chapter-02	B-09 Botany: Chapter-02	Daily Live Exam C-14 MCQ (10×1=10); 10 min. Daily Live Exam HM-21 MCQ (10×1=10); 10 min.	
12 July 2025 (Saturday)	P-13 Physics: Chapter-02	C-15 Chemistry: Chapter-02	Daily Live Exam P-12 MCQ (10×1=10); 10 min. Daily Live Exam B-09 MCQ (10×1=10); 10 min.	
13 July 2025 (Sunday) Chapter-wise Exam-03	Botany Chapter-01 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.			
14 July 2025 (Monday)	HM-22 H.Math: Chapter-03	B-10 Botany: Chapter-02	Daily Live Exam P-13 MCQ (10×1=10); 10 min. Daily Live Exam C-15 MCQ (10×1=10); 10 min.	
16 July 2025 (Wednesday)	C-16 Chemistry: Chapter-02	HM-23 H.Math: Chapter-03	Daily Live Exam HM-22 MCQ (10×1=10); 10 min. Daily Live Exam B-10 MCQ (10×1=10); 10 min.	
17 July 2025 (Thursday)	H.Math Problem Solving Class-01 (Evening- 6:30 PM)			
18July 2025 (Friday)	P-14 Physics: Chapter-02	B-11 Botany: Chapter-02	Daily Live Exam C-16 MCQ (10×1=10); 10 min. Daily Live Exam HM-23 MCQ (10×1=10); 10 min.	
19 July 2025 (Saturday)	P-01 Physics: Chapter-01	C-17 Chemistry: Chapter-02	Daily Live Exam P-14 MCQ (10×1=10); 10 min. Daily Live Exam B-11 MCQ (10×1=10); 10 min.	
20 July 2025 (Sunday) Chapter-wise Exam-04	Physics 1st Paper Chapter-02 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.			
23 July 2025 (Wednesday)	C-18 Chemistry: Chapter-02	HM- 24 H.Math: Chapter-03	Daily Live Exam P-01 MCQ (10×1=10); 10 min. Daily Live Exam C-17 MCQ (10×1=10); 10 min.	
24 July 2025 (Thursday)	Biology Problem Solving Class-01 (Evening- 6:30 PM)			
25July 2025 (Friday)	P-02 Physics: Chapter-01	B-12 Botany: Chapter-02	Daily Live Exam C-18 MCQ (10×1=10); 10 min. Daily Live Exam HM-24 MCQ (10×1=10); 10 min.	
26 July 2025 (Saturday)	P-15 Physics: Chapter-03	C-19 Chemistry: Chapter-02	Daily Live Exam P-02 MCQ (10×1=10); 10 min. Daily Live Exam B-12 MCQ (10×1=10); 10 min.	
27 July 2025 (Sunday) Chapter-wise Exam-05	Physics 1st Paper Chapter-01 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.			
28 July 2025 (Monday)	HM-25 H.Math: Chapter-03	B-13 Botany: Chapter-03	Daily Live Exam P-15 MCQ (10×1=10); 10 min. Daily Live Exam C-19 MCQ (10×1=10); 10 min.	
30 July 2025 (Wednesday)	C-20 Chemistry: Chapter-02	HM-26 H.Math: Chapter-03	Daily Live Exam HM-25 MCQ (10×1=10); 10 min. Daily Live Exam B-13 MCQ (10×1=10); 10 min.	

31 July 2025 (Thursday)	Guideline Seminar-01		
01 August 2025 (Friday)	P-16 Physics: Chapter-03	B-14 Botany: Chapter-03	Daily Live Exam C-20 MCQ (10×1=10); 10 min. Daily Live Exam HM-26 MCQ (10×1=10); 10 min.
02 August 2025 (Saturday)	P-17 Physics: Chapter-03	C-21 Chemistry: Chapter-02	Daily Live Exam P-16 MCQ (10×1=10); 10 min. Daily Live Exam B-14 MCQ (10×1=10); 10 min.
03 August 2025 (Sunday) Chapter-wise Exam-06	Botany Chapter-02 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
04 August 2025 (Monday)	HM-01 H.Math: Chapter-01	B-15 Botany: Chapter-03	Daily Live Exam P-17 MCQ (10×1=10); 10 min. Daily Live Exam C-21 MCQ (10×1=10); 10 min.
Online classes and exams will be closed on 05 August 2025 (Tuesday) on the occasion of "July Mass Uprising Day".			
06 August 2025 (Wednesday)	C-22 Chemistry: Chapter-02	HM-41 H.Math: Chapter-06	Daily Live Exam HM-01 MCQ (10×1=10); 10 min. Daily Live Exam B-15 MCQ (10×1=10); 10 min.
07 August 2025 (Thursday)	Physics Problem Solving Class-02 (Evening- 6:30 PM)		
08 August 2025 (Friday)	P-18 Physics: Chapter-03	B-16 Botany: Chapter-03	Daily Live Exam C-22 MCQ (10×1=10); 10 min. Daily Live Exam HM-41 MCQ (10×1=10); 10 min.
09 August 2025 (Saturday)	P-19 Physics: Chapter-03	C-23 Chemistry: Chapter-03	Daily Live Exam P-18 MCQ (10×1=10); 10 min. Daily Live Exam B-16 MCQ (10×1=10); 10 min.
10 August 2025 (Sunday) Chapter-wise Exam-07	H.Math 1st Paper Chapter-03 [Part-02 Lecture HM-19 to 26]; (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
11 August 2025 (Monday)	HM-02 H.Math: Chapter-01	B-17 Botany: Chapter-03	Daily Live Exam P-19 MCQ (10×1=10); 10 min. Daily Live Exam C-23 MCQ (10×1=10); 10 min.
13 August 2025 (Wednesday)	C-24 Chemistry: Chapter-03	HM-42 H.Math: Chapter-06	Daily Live Exam HM-02 MCQ (10×1=10); 10 min. Daily Live Exam B-17 MCQ (10×1=10); 10 min.
14 August 2025 (Thursday)	Chemistry Problem Solving Class-02 (Evening- 6:30 PM)		
15 August 2025 (Friday)	P-20 Physics: Chapter-03	B-18 Botany: Chapter-03	Daily Live Exam C-24 MCQ (10×1=10); 10 min. Daily Live Exam HM-42 MCQ (10×1=10); 10 min.
16 August 2025 (Saturday)	P-21 Physics: Chapter-04	C-25 Chemistry: Chapter-03	Daily Live Exam P-20 MCQ (10×1=10); 10 min. Daily Live Exam B-18 MCQ (10×1=10); 10 min.
17 August 2025 (Sunday) Chapter-wise Exam-08	Chemistry 1st Paper Chapter-02 [Part-02 Lecture C-13 to 22]; (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
18 August 2025 (Monday)	HM-03 H.Math: Chapter-01	B-25 Botany: Chapter-05	Daily Live Exam P-21 MCQ (10×1=10); 10 min. Daily Live Exam C-25 MCQ (10×1=10); 10 min.
19 August 2025 (Tuesday) Chapter-wise Exam-09	Physics 1st Paper Chapter-03 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
20 August 2025 (Wednesday)	C-26 Chemistry: Chapter-03	HM-43 H.Math: Chapter-06	Daily Live Exam HM-03 MCQ (10×1=10); 10 min. Daily Live Exam B-25 MCQ (10×1=10); 10 min.
21 August 2025 (Thursday)	H.Math Problem Solving Class-02 (Evening- 6:30 PM)		
22 August 2025 (Friday)	P-22 Physics: Chapter-04	B-26 Botany: Chapter-05	Daily Live Exam C-26 MCQ (10×1=10); 10 min. Daily Live Exam HM-43 MCQ (10×1=10); 10 min.
23 August 2025 (Saturday)	P-23 Physics: Chapter-04	C-27 Chemistry: Chapter-03	Daily Live Exam P-22 MCQ (10×1=10); 10 min. Daily Live Exam B-26 MCQ (10×1=10); 10 min.
24 August 2025 (Sunday) Chapter-wise Exam-10	Botany Chapter-03 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
25 August 2025 (Monday)	HM-04 H.Math: Chapter-01	B-27 Botany: Chapter-05	Daily Live Exam P-23 MCQ (10×1=10); 10 min. Daily Live Exam C-27 MCQ (10×1=10); 10 min.
27 August 2025 (Wednesday)	C-28 Chemistry: Chapter-03	HM-44 H.Math: Chapter-06	Daily Live Exam HM-04 MCQ (10×1=10); 10 min. Daily Live Exam B-27 MCQ (10×1=10); 10 min.
28 August 2025 (Thursday)	Guideline Seminar-02		
29 August 2025 (Friday)	P-24 Physics: Chapter-04	B-28 Botany: Chapter-05	Daily Live Exam C-28 MCQ (10×1=10); 10 min. Daily Live Exam HM-44 MCQ (10×1=10); 10 min.
30 August 2025 (Saturday)	P-25 Physics: Chapter-04	C-29 Chemistry: Chapter-03	Daily Live Exam P-24 MCQ (10×1=10); 10 min. Daily Live Exam B-28 MCQ (10×1=10); 10 min.

31 August 2025 (Sunday) Chapter-wise Exam-11	H.Math 1st Paper Chapter-06 (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-উল্লেখ](#)).

HSC 1st Year Academic Program Pioneer Batch (Class & Exam Syllabus-02)

Physics 1st paper Reference Book: মাতালাল TEXT		
Chapter	Lecture	Lecture-based discussion
Chapter-2 Vector	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.
	P-14	Scalar and vector fields, gradient, divergence, curl.
Chapter-1 Physical World and Measurement	P-01	Scope of physics, Physics and other branches of science, Evolution of physics, Concepts, formulas, principles, postulates, hypotheses and theories in Physics, Measurement, Units, dimensions, dimensional equations, principle of symmetry, conversion of physical quantities From one unitary system to another, limitations of dimensional equations, errors, mechanical errors, observational errors, random or scattered errors, repetitive errors, Least Count errors, calculation of errors, determination of accurate values of measured quantities, significant figures.
	P-02	Error calculation (proof, percentage, relative), mathematical problems related to errors, Some measuring instruments, Vernier scale, Slide calipers, Screw-gauge, Spherometer, Weighing machine, Mathematical problems
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.
Chapter-4 Newtonian Mechanics	P-21	Basic concepts of force, Newtonian mechanics, Newton's first law of motion, inertia of motion and rest, definition and characteristics of force, different types of forces, fundamental forces, gravitational force, electromagnetic force, strong nuclear force, weak nuclear force, Force balance
	P-22	Momentum, Newton's second law of motion, equilibrium of forces. CQ & Admission Standard Problems
	P-23	Impulsive force and impulsive of force, Newton's third law of motion, system of forces, external and internal forces, types of forces, gravitational force, normal force, weight of an object, tension.
	P-24	Friction, angle of friction, limiting angle.
	P-25	Conservation of momentum, vector representation of conservation of momentum, collision, formulas for one-dimensional elastic collision.

Chemistry 1st Paper Reference Book: মাতালাল TEXT		
Chapter	Lecture	Lecture-based discussion
Chapter-2 Qualitative Chemistry Introduction	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.
	C-17	Principle of Solubility Product, Application of the principle of Solubility Product Common ion and its effect to change solubility
	C-18	Application of common ion, effect of pH on solubility, Related Math.
	C-19	Qualitative Analysis (Ion identification)- Flame test, wet test (+ve and -ve ion identification), detecting presence of Carbon in organic compounds, detection of Hydrogen in organic compounds, Detection of N, S, X (F, Cl, Br, I) in organic compounds.
	C-20	Applications of Qualitative Chemistry (Physical Analysis)- crystallization, distillation and partial distillation, steam distillation, sublimation, low pressure distillation.
	C-21	Nernst's distribution formula, solvent extraction.

	C-22	chromatography, column chromatography, thin layer chromatography, paper chromatography, importance of qualitative analysis.
Chapter-3 Periodic Properties and Bonding in Elements	C-23	History, idea and significance of periodic table, Classification of elements based on e^- configuration, Block elements (s, p, d, f) characteristics.
	C-24	Chemical properties of block elements (Chemical properties of s block elements).
	C-25	Chemical properties of block elements, Chemical properties of p block elements, (Group-13, 14, 15).
	C-26	Chemical properties of block elements, Chemical properties of p block elements, (Group-16, 17, 18).
	C-27	Chemical properties of block elements (Chemical properties of d block elements, Chemical properties of f block elements).
	C-28	Transitional Element, properties of transitional element.
	C-29	Periodic properties- atomic size, Ionization energy, Acidity/Basicity of oxides.

H.Math 1st Paper Reference Book: শ্যামালাল TEXT		
Chapter	Lecture	Lecture-based discussion
Chapter-3 Straight Line	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.
	HM-24	Exercise – 3.7; Perpendicular distance of a given straight line from a given point, Position of a point with respect to a straight line
	HM-25	Exercise - 3.7; Bisection of a line segment joining two points, perpendicular distance between two parallel straight lines,
Chapter-6 Trigonometric Ratios	HM-41	Exercise – 6; Types of trigonometry, Quadrilateral, Two-dimensional angle, Measurement of two-dimensional angle, Radian angle is a constant angle, Relationship between degree and radian, Three-dimensional angle and its measurement, Problems related to mutual conversion of sexagesimal, circular and centigrade systems of angles, Determination of the length of arc of a circle, Determination of the area of a circle.
	HM-42	Exercise – 6; Angle between the hour and minute hands of a clock, Interior angle of a polygon, Similar triangle, Ratio of trigonometric angles, Fundamental theorem, Trigonometric ratio of axial angle, Relationship between ratios of trigonometric angles.
	HM-43	Exercise – 6; Problems related to mutual conversion of trigonometric ratios and determination of value, Problems related to proof, Problems related to trigonometric identities, Circular function and its domain-range.
	HM-44	Exercise – 6; Graphs of trigonometric functions, graph related problems, period of trigonometric functions, various changes in the graph of trigonometric functions, determination of fundamental period.
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.

Botany 1st Paper Reference Book: শ্যামালাল TEXT		
Chapter	Lecture	Lecture-based discussion
Chapter 1 Cell and Its structure	B-07	Replication, Transcription, Reverse Transcription
	B-08	Translation, Central Dogma of Biology, Gene, Genetic Code
Chapter-2 Cell Division	B-09	Amitosis, Cell Cycle: Controllers of Cell Cycle, Interphase: G ₁ Phase, S Phase, G ₂ Phase.
	B-10	M-phase (Prophase, Prometaphase, Metaphase, Anaphase, Telophase) <i>Uncontrolled Mitosis</i> , Cell Death
	B-11	Importance of Mitosis, Meiosis: Meiosis 1: Prophase-1, Metaphase-1, Anaphase-1, Telophase-1, Interkinesis-1
	B-12	Meiosis-2: Prophase-2, Metaphase-2, Anaphase-2, Telophase-2, Cytokinesis-2, Characteristics of Meiosis, Importance of Meiosis, Crossing Over.
Chapter-3 Cell Chemistry	B-13	Carbohydrate: Characteristics of Carbohydrate, Types of Carbohydrate: Monosaccharide (Triose, Tetrose, Pentose), Disaccharide
	B-14	Monosaccharide (Hexose, Heptose), Disaccharide
	B-15	Oligosaccharide, Polysaccharide, Functions of Carbohydrate
	B-16	Amino Acid: Types of Amino Acid, Protein: Types of Protein
	B-17	Lipid: Structure of Lipid, Types of Lipids, Role of lipid in living body
Chapter-5 Algae and Fungi	B-18	Enzyme: Characteristics of enzyme, mechanism of action of enzyme, theories regarding mechanism of action of enzyme. Classification of enzyme, regulators of enzyme, Uses of enzyme
	B-25	Algae (Characteristics, Physical structure, Cellular structure), Reproduction of algae (Vegetative reproduction, asexual reproduction, sexual reproduction)
	B-26	<i>Ulothrix</i> (habitat, Physical structure, reproduction), Economic importance of algae
	B-27	Fungi (Characteristics, Physical structure, Cellular Structure), Reproduction of fungi (Vegetative reproduction, asexual reproduction, sexual reproduction), importance of fungi (advantages and disadvantages)
	B-28	<i>Agaricus</i> (Habitat, Physical structure), Economic importance of <i>Agaricus</i> , fungal diseases, Lichen (Habitat, Characteristics, Structure, Classification), Importance of Lichen.



উদ্ভাস

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