

HSC 1st Year Academic Program Pioneer Batch

[Online/Combo]

Class & Exam Routine Part-04

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
13 November 2025 (Thursday)	C-48 Chemistry: Chapter-04	P-62 Physics: Chapter-10	Daily Live Exam HM-61 MCQ (10×1=10); 10 min. Daily Live Exam Z-09 MCQ (10×1=10); 10 min.	
14 November 2025 (Friday) Chapter-wise Exam-23	Physics Chapter-06 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.			
16 November 2025 (Sunday)	C-49 Chemistry: Chapter-04	P-63 Physics: Chapter-10	Daily Live Exam C-48 MCQ (10×1=10); 10 min. Daily Live Exam P-62 MCQ (10×1=10); 10 min.	
17 November 2025 (Monday)	Z-21 Zoology: Chapter-04	HM-62 H.Math: Chapter-08	Daily Live Exam C-49 MCQ (10×1=10); 10 min. Daily Live Exam P-63 MCQ (10×1=10); 10 min.	
18 November 2025 (Tuesday)	H.Math Problem Solving Class-04			
19 November 2025 (Wednesday)	Z-10 Zoology: Chapter-02	HM-63 H.Math: Chapter-08	Daily Live Exam Z-21 MCQ (10×1=10); 10 min. Daily Live Exam HM-62 MCQ (10×1=10); 10 min.	
20 November 2025 (Thursday)	C-50 Chemistry: Chapter-04	P-64 Physics: Chapter-10	Daily Live Exam Z-10 MCQ (10×1=10); 10 min. Daily Live Exam HM-63 MCQ (10×1=10); 10 min.	
21 November 2025 (Friday) Chapter-wise Exam-24	H.Math Chapter-8 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.			
23 November 2025 (Sunday)	C-51 Chemistry: Chapter-04	P-65 Physics: Chapter-10	Daily Live Exam C-50 MCQ (10×1=10); 10 min. Daily Live Exam P-64 MCQ (10×1=10); 10 min.	
24 November 2025 (Monday)	Z-22 Zoology: Chapter-04	HM-64 H.Math: Chapter-08	Daily Live Exam C-51 MCQ (10×1=10); 10 min. Daily Live Exam P-65 MCQ (10×1=10); 10 min.	
25 November 2025 (Tuesday)	Biology Problem Solving Class-04			
26 November 2025 (Wednesday)	Z-11 Zoology: Chapter-02	HM-65 H.Math: Chapter-09	Daily Live Exam Z-22 MCQ (10×1=10); 10 min. Daily Live Exam HM-64 MCQ (10×1=10); 10 min.	
27 November 2025 (Thursday)	C-52 Chemistry: Chapter-04	P-66 Physics: Chapter-10	Daily Live Exam Z-11 MCQ (10×1=10); 10 min. Daily Live Exam HM-65 MCQ (10×1=10); 10 min.	
30 November 2025 (Sunday)	C-53 Chemistry: Chapter-05	P-43 Physics: Chapter-07	Daily Live Exam C-52 MCQ (10×1=10); 10 min. Daily Live Exam P-66 MCQ (10×1=10); 10 min.	
01 December 2025 (Monday)	Z-23 Zoology: Chapter-04	HM-66 H.Math: Chapter-09	Daily Live Exam C-53 MCQ (10×1=10); 10 min. Daily Live Exam P-43 MCQ (10×1=10); 10 min.	
02 December 2025 (Tuesday)	Physics Problem Solving Class-05			
03 December 2025 (Wednesday)	Z-12 Zoology: Chapter-02	HM-67 H.Math: Chapter-09	Daily Live Exam Z-23 MCQ (10×1=10); 10 min. Daily Live Exam HM-66 MCQ (10×1=10); 10 min.	
04 December 2025 (Thursday)	C-54 Chemistry: Chapter-05	P-44 Physics: Chapter-07	Daily Live Exam Z-12 MCQ (10×1=10); 10 min. Daily Live Exam HM-67 MCQ (10×1=10); 10 min.	
05 December 2025 (Friday) Chapter-wise Exam-25	Chemistry 1st Paper Chapter-04 [Part-02 Lecture C-45 to 52]; (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min			
06 December 2025 (Saturday) Chapter-wise Exam-26	Physics Chapter-10 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.			
07 December 2025 (Sunday)	C-55 Chemistry: Chapter-05	P-45 Physics: Chapter-07	Daily Live Exam C-54 MCQ (10×1=10); 10 min. Daily Live Exam P-44 MCQ (10×1=10); 10 min.	
08 December 2025 (Monday)	Z-24 Zoology: Chapter-04	HM-68 H.Math: Chapter-09	Daily Live Exam C-55 MCQ (10×1=10); 10 min. Daily Live Exam P-45 MCQ (10×1=10); 10 min.	
09 December 2025 (Tuesday)	Guideline Seminar-05			
10 December 2025 (Wednesday)	Z-13 Zoology: Chapter-02	HM-69 H.Math: Chapter-09	Daily Live Exam Z-24 MCQ (10×1=10); 10 min. Daily Live Exam HM-68 MCQ (10×1=10); 10 min.	
11 December 2025 (Thursday)	C-56 Chemistry: Chapter-05	P-46 Physics: Chapter-07	Daily Live Exam Z-13 MCQ (10×1=10); 10 min. Daily Live Exam HM-69 MCQ (10×1=10); 10 min.	

14 December 2025 (Sunday)	C-01 Chemistry: Chapter-01	P-47 Physics: Chapter-07	Daily Live Exam C-56 MCQ (10×1=10); 10 min. Daily Live Exam P-46 MCQ (10×1=10); 10 min.
15 December 2025 (Monday)	Z-25 Zoology: Chapter-04	HM-70 H.Math: Chapter-09	Daily Live Exam C-01 MCQ (10×1=10); 10 min. Daily Live Exam P-47 MCQ (10×1=10); 10 min.
Online class and exam will be closed on December 16, (Tuesday) on the occasion of Victory Day.			
17 December 2025 (Wednesday)	Z-14 Zoology: Chapter-02	HM-71 H.Math: Chapter-09	Daily Live Exam Z-25 MCQ (10×1=10); 10 min. Daily Live Exam HM-70 MCQ (10×1=10); 10 min.
18 December 2025 (Thursday)	C-02 Chemistry: Chapter-01	P-48 Physics: Chapter-07	Daily Live Exam Z-14 MCQ (10×1=10); 10 min. Daily Live Exam HM-71 MCQ (10×1=10); 10 min.
19 December 2025 (Friday) Chapter-wise Exam-27	H.Math 1st Paper Chapter-09 [Part-01 Lecture HM-63 to 70]; (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
20 December 2025 (Saturday)	Online/Offline exam will be closed		
21 December 2025 (Sunday)	C-03 Chemistry: Chapter-01	P-49 Physics: Chapter-08	Daily Live Exam C-02 MCQ (10×1=10); 10 min. Daily Live Exam P-48 MCQ (10×1=10); 10 min.
22 December 2025 (Monday)	Z-26 Zoology: Chapter-04	HM-72 H.Math: Chapter-09	Daily Live Exam C-03 MCQ (10×1=10); 10 min. Daily Live Exam P-49 MCQ (10×1=10); 10 min.
23 December 2025 (Tuesday)	H.Math Problem Solving Class-05		
24 December 2025 (Wednesday)	B-29 Botany: Chapter-06	HM-73 H.Math: Chapter-09	Daily Live Exam Z-26 MCQ (10×1=10); 10 min. Daily Live Exam HM-72 MCQ (10×1=10); 10 min.
Online class and exam will be closed on December 25 (Thursday) on the occasion of Christmas.			
26 December 2025 (Friday) Chapter-wise Exam-29	Chemistry Chapter-05 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
27 December 2025 (Saturday) Chapter-wise Exam-30	Zoology Chapter-02 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min		
28 December 2025 (Thursday)	C-04 Chemistry: Chapter-01	P-50 Physics: Chapter-8	Daily Live Exam B-29 MCQ (10×1=10); 10 min. Daily Live Exam HM-73 MCQ (10×1=10); 10 min.
The next class and exam routine (Part-05) 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 5:0

HSC 1st Year Academic Program Pioneer Batch (Class & Exam Syllabus-04)

Physics 1 st Paper Reference Book: मातालाल TEXT		
Chapter	Lecture	Lecture-based discussion
Chapter-10 Ideal gas and kinetics of gases	P-62	Ideal gases, properties of ideal gases, real gases, fundamental assumptions of the kinetic theory of gases.
	P-63	Kinetic molecular theory of gases, applications of kinetic theory, Different types of velocities of gas molecules, mean free path,
	P-64	Degrees of freedom, Monatomic gases, diatomic gases, polyatomic gases, linear polyatomic gases, nonlinear polyatomic gases, principle of equipartition of energy
	P-65	Water vapor and atmospheric pressure, gases and vapors, evaporation, condensation, saturated and unsaturated vapor pressure, relationship between vapor pressure and volume at constant temperature, relationships among different parameters of water vapor, dew point and relative humidity. Common mathematical problem
	P-66	Humidity measuring instruments and humidity determination, description of wet and dry bulb hygrometer, working principle of wet and dry bulb hygrometer, CQ & Admission Standard Mathematical Problems on Relative Humidity and Dew Point, some phenomena related to hygrometry.
Chapter-7 Structural Properties of Matter	P-43	Intermolecular forces, intermolecular forces in solids, intermolecular forces in liquids, intermolecular forces in gases, bonding, intermolecular forces and elasticity of materials, intermolecular attraction and repulsion forces, potential energy, analysis of graphs, analysis of potential energy graphs, summary of graphs, quantities related to elasticity.
	P-44	Elasticity-based classification of materials, deformation, stress, types of deformation, types of stress, Hooke's law, elastic constants and general mathematical problems, relationships among different elastic constants.

	P-45	CQ & Admission Standard mathematical problems related to elastic constants, elastic potential energy, Poisson's ratio.
	P-46	Laminar and turbulent Flow, viscosity, friction and viscosity, effects of pressure and temperature on viscosity, terminal velocity and Reynolds number.
	P-47	Stokes' law, terminal velocity, surface tension, factors affecting surface tension of liquids.
	P-48	Surface energy, capillarity, and mathematical problems.
Chapter-8 Periodic Motion	P-49	Periodic motion, spatial periodicity, temporal periodicity, characteristics of periodic motion, oscillatory motion, simple harmonic motion, ideal spring, spring constant, motion of a mass attached to an ideal spring, conditions for simple harmonic motion, differential equation of simple harmonic motion, parameters of simple harmonic motion.
	P-50	Relation between simple harmonic motion and circular motion, displacement in simple harmonic motion, solution of the differential equation of simple harmonic motion, relation between velocity and acceleration, mathematical problems.

Chemistry 1 st Paper Reference Book: मातालाल TEXT

Chapter	Lecture	Lecture-based discussion
Chapter-4 Chemical Changes	C-48	Dissociation constant of acid-base, Degree of dissociation, Acid-Base strength.
	C-49	P_H & P_{OH}
	C-50	Buffer solution
	C-51	Thermochemistry- Law of conservation of mass and energy, Thermochemical equation, Heat of reaction.
	C-52	Bond energy, Lavoisier and Hess's law, determining heat of reaction using Lavoisier and Hess's law.
Chapter-5 Vocational Chemistry	C-53	Food Safety- (Chemistry in enhancing food production, Importance of various elements as fertilizers, Role of chemistry in food preservation, Drying method of Foodstuff, Cooling method of Foodstuff).
	C-54	Food Preservatives- (Natural Food Preservatives, Artificial Food Preservatives, Anti-Microbial Agents, Antioxidants, Vinegar).
	C-55	Food Fractionation- (Stages of Fractionation Fruit Fractionation, Vegetable Fractionation, Fish Fractionation).
	C-56	Mixture- (Colloid, Colloid filtration, Suspension, Preparation of Butter from Milk), Toiletries & Perfumeries- Rose water preparations, hair oil preparations, telecom powder preparations, vanishing cream preparations, cold cream preparations, lipstick preparations, after shave preparations, henna extract), Cleaners and detergents- (glass cleaner, toilet cleaner).
Chapter-1 Safe Use of Laboratory	C-01	Safe use of Laboratory- Aprons, masks, safety glasses, gloves, lab rules/golden rules, Solvent measuring device and its uses- Chemical analysis, test tubes, beakers, burettes, pipettes, volumetric flasks, conical flasks, wash bottles, measuring cylinders, techniques for cleaning glassware, Concentration- Molarity, Molality, Dilution, Standard Substances (Primary & Secondary) + Math
	C-02	Titration- Method, Indicator, End Point & Equivalent Point, Formulation of Titration Equations + Math.
	C-03	Solute measuring instruments - chemical instruments, Paul-Bunge balances, method of weighing in balances, digital balances, Heating Techniques with Laboratory Apparatus- Bunsen Burner & Flame, Heating Techniques in Round Bottom Flasks, Conical flask heating technique, Water bath heating technique, Porcelain bowl heating technique, Test tube heating technique, Beaker heating technique. Storage, Use, Precautions and Disposal of Chemicals- Storage of Chemicals, Waste Management, Use and Precautions of Chemicals.
	C-04	Effects of Chemicals on Environment and Moderate Use - Environmental Pollution by Airborne Substances, Environmental Pollution by Laboratory Solid and Liquid Substances, Effects of chemicals on Environment and Health, moderate use of chemicals, analytical methods (macro, semi-micro, micro), laboratory safety equipment and rules of use - fume hood, blanket, laboratory kit, eyecup, sink, use of fire extinguisher, first aid box, first aid and Use of first aids.

H.Math 1 st Paper Reference Book: मातालाल TEXT

Chapter	Lecture	Lecture-based discussion
Chapter-8 Functions and Graph of Functions	HM-62	Exercise – 8; Determining the Domain range related, adjoint functions.
Chapter-9 Differentiation	HM-63	Exercise - 9.1; Basic concepts of limits, undefined, infinite, existence of limits,
	HM-64	Exercise - 9.1; Limits, basic theorems of limits, Existence of limits and general limits, factor analysis related, related to multiplying denominator and numerator of $\lim_{x \rightarrow a} \frac{x^n - a^n}{x - a}$ by conjugate.
	HM-65	Exercise - 9.1; Limits at infinite points and infinite limits, some special limits; Infinite limits related. $\lim_{x \rightarrow 0} \frac{\sin x}{x}$; $\lim_{x \rightarrow 0} \frac{\tan x}{x}$
	HM-66	Exercise - 9.1; $\lim_{x \rightarrow 0} (1 + x)^{\frac{1}{x}}$; $\lim_{x \rightarrow \infty} \left(1 + \frac{1}{x}\right)^x$ related, Series related; Continuity of functions, Sandwich theorem.
	HM-67	Exercise - 9.2; Differentiability of Functions, Differentiation by First principle rule.
	HM-68	Exercise - 9.2; General formulae of differentiation, Exercise - 9.3; Derivative of products of functions. Derivative of quotients of functions.
	HM-69	Exercise - 9.4; Differentiation of conjugate functions, La Hôpital's Rule (Admission Special).
	HM-70	Exercise - 9.4; Concept of inverse trigonometric functions, Differentiation using logarithms related
	HM-71	Exercise - 9.5; Derivative of undefined functions, Differentiation of parametric equations; Differentiation of functions with respect to functions, Exercise.
	HM-72	Exercise - 9.6; Periodic differentiation, nth derivative, Proof of periodic differentiation (trigonometry related).

	HM-73	Exercise - 9.6; Proof with periodic differentiation (residue), Exercise - 9.7; Physical applications.
Biology 2 nd Paper Reference Book: মালাল TEXT		
Chapter	Lecture	Lecture-based discussion
Chapter-2 Animal Identity	Z-10	Digestive system of grasshopper (Alimentary Canal, Digestive Glands), Ingestion and Digestion of food
	Z-11	Blood circulatory system of grasshopper, respiratory system, excretory system
	Z-12	Sensory organs of grasshopper, Compound eye of grasshopper, Mechanism of vision, process of reproduction, metamorphosis, role of hormone in metamorphosis
	Z-13	Rohu fish, External Structure, Scales, Blood Circulatory system of Rohu fish, Blood, Heart, Blood Vessels (Arterial system of Rohu fish)
	Z-14	Venous system of grasshopper, Respiratory system, Structure of gills, mechanism of respiration, air bladder, Reproduction and lifecycle of Rohu fish
Chapter-4 Human Physiology: Blood and Circulation	Z-21	Mechanism of blood clotting, Lymph, Lymphatic System, Blood Vessel, Types of blood vessels
	Z-22	Heart (Location, Shape and size, Covering, Wall), Structure of cardiac muscle, Chambers of the heart, Valves of the heart, Circulation of blood through the heart
	Z-23	Heartbeat-Cardiac Cycle, Myogenic control of heartbeat and transmission of impulse
	Z-24	Blood Pressure and baroreceptor, Blood Circulation in humans (Systemic, Pulmonary, Coronary, Portal)
	Z-25	Cardiac Diseases, Chest Pain or Angina, Heart Attack, Heart Failure
	Z-26	Basic idea about treatment of cardiac disease, artificial pacemaker, Open heart surgery, Coronary Bypass surgery

Biology 1st Paper Reference Book: মালাল TEXT		
Chapter	Lecture	Lecture-based discussion
Chapter-6 Bryophyta and Pteridophyta	B-29	Bryophyta: Introduction to Bryophyta, Characteristics of Bryophyta, <i>Riccia</i> : Characteristics of <i>Riccia</i> , External Structure of <i>Riccia</i> , Internal structure of <i>Riccia</i> : Reproduction and alternation of generation of <i>Riccia</i>



উদ্ভাস

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