HSC 2nd Year Academic Program Pioneer Batch [Online/Combo]

Class & Exam Routine-05 (English Version)

Date & Day	Live Class: 1 2:30pm	Live Class: 2 6:45pm	Live Exam	Online: From 8:00am to 11:55pm Offline: From 9:00am to 5:00pm
22 October 2025 (Wednesday)	---	HM-57 H.Math: Chapter-08	Daily Live Exam P-56 MCQ (10×1=10); 10 min. Daily Live Exam C-58 MCQ (10×1=10); 10 min.	
23 October 2025 (Thursday)	Chemistry Problem Solving Class-05	HM-23 H.Math: Chapter-05	--- Daily Live Exam HM-57 MCQ (10×1=10); 10 min.	
24 October 2025 (Friday)	P-57 Physics: Chapter-08	C-59 Chemistry: Chapter-04	--- Daily Live Exam HM-23 MCQ (10×1=10); 10 min.	
25 October 2025 (Saturday)	P-58 Physics: Chapter-09	HM-58 H.Math: Chapter-08	Daily Live Exam P-57 MCQ (10×1=10); 10 min. Daily Live Exam C-59 MCQ (10×1=10); 10 min.	
26 October 2025 (Sunday) **Chapter-wise Exam-34**	---	HM-24 H.Math: Chapter-05	Daily Live Exam P-58 MCQ (10×1=10); 10 min. Daily Live Exam HM-58 MCQ (10×1=10); 10 min.	
	Botany Chapter-12 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.			
27 October 2025 (Monday)	---	C-60 Chemistry: Chapter-04	--- Daily Live Exam HM-24 MCQ (10×1=10); 10 min.	
28 October 2025 (Tuesday) **Chapter-wise Exam-35**	**Physics 2nd Paper Chapter-08 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**			
29 October 2025 (Wednesday)	---	HM-59 H.Math: Chapter-09	--- Daily Live Exam C-60 MCQ (10×1=10); 10 min.	
30 October 2025 (Thursday)	Biology Problem Solving Class-06	HM-25 H.Math: Chapter-05	--- Daily Live Exam HM-59 MCQ (10×1=10); 10 min.	
31 October 2025 (Friday)	C-61 Chemistry: Chapter-05	P-59 Physics: Chapter-09	--- Daily Live Exam HM-25 MCQ (10×1=10); 10 min.	
01 November 2025 (Saturday)	P-60 Physics: Chapter-09	HM-60 H.Math: Chapter-09	Daily Live Exam C-61 MCQ (10×1=10); 10 min. Daily Live Exam P-59 MCQ (10×1=10); 10 min.	
02 November 2025 (Sunday) **Chapter-wise Exam-36**	---	HM-26 H.Math: Chapter-05	Daily Live Exam P-60 MCQ (10×1=10); 10 min. Daily Live Exam HM-60 MCQ (10×1=10); 10 min.	
	H.Math 2nd Paper Chapter-08 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.			
03 November 2025 (Monday)	---	C-62 Chemistry: Chapter-05	--- Daily Live Exam HM-26 MCQ (10×1=10); 10 min.	
04 November 2025 (Tuesday) **Chapter-wise Exam-37**	**Chemistry 2nd Paper Chapter-04 [Part-02 Lecture C-57 to 60]; (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**			
05 November 2025 (Wednesday)	HM-61 H.Math: Chapter-09	---	--- Daily Live Exam C-62 MCQ (10×1=10); 10 min.	
06 November 2025 (Thursday)	---	HM-27 H.Math: Chapter-05	Daily Live Exam HM-61 MCQ (10×1=10); 10 min. ---	
07 November 2025 (Friday)	P-67 Physics: Chapter-11	HM-62 H.Math: Chapter-09	--- Daily Live Exam HM-27 MCQ (10×1=10); 10 min.	
08 November 2025 (Saturday)	P-68 Physics: Chapter-11	---	Daily Live Exam P-67 MCQ (10×1=10); 10 min. Daily Live Exam HM-62 MCQ (10×1=10); 10 min.	
09 November 2025 (Sunday) **Chapter-wise Exam-38**	---	HM-28 H.Math: Chapter-05	Daily Live Exam P-68 MCQ (10×1=10); 10 min. ---	
	Physics 2nd Paper Chapter-09 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.			

10 November 2025 (Monday)	---	C-63 Chemistry: Chapter-05	--- Daily Live Exam HM-28 MCQ (10×1=10); 10 min.
11 November 2025 (Tuesday) **Chapter-wise Exam-39**	**H.Math 2nd Paper Chapter-05 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**		
12 November 2025 (Wednesday)	P-61 Physics: Chapter-10	HM-63 H.Math: Chapter-09	--- Daily Live Exam C-63 MCQ (10×1=10); 10 min.
13 November 2025 (Thursday)	P-62 Physics: Chapter-10	HM-64 H.Math: Chapter-09	Daily Live Exam P-61 MCQ (10×1=10); 10 min. Daily Live Exam HM-63 MCQ (10×1=10); 10 min.
14 November 2025 (Friday)	P-63 Physics: Chapter-10	HM-65 H.Math: Chapter-09	Daily Live Exam P-62 MCQ (10×1=10); 10 min. Daily Live Exam HM-64 MCQ (10×1=10); 10 min.
15 November 2025 (Saturday)	P-64 Physics: Chapter-10	HM-66 H.Math: Chapter-09	Daily Live Exam P-63 MCQ (10×1=10); 10 min. Daily Live Exam HM-65 MCQ (10×1=10); 10 min.
16 November 2025 (Sunday)	HM-67 H.Math: Chapter-09	P-65 Physics: Chapter-10	Daily Live Exam P-64 MCQ (10×1=10); 10 min. Daily Live Exam HM-66 MCQ (10×1=10); 10 min.
17 November 2025 (Monday)	---	Physics Problem Solving Class-06	Daily Live Exam HM-67 MCQ (10×1=10); 10 min. Daily Live Exam P-65 MCQ (10×1=10); 10 min.
18 November 2025 (Tuesday) **Chapter-wise Exam-40**	**Physics 2nd Paper Chapter-11 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**		
19 November 2025 (Wednesday)	C-64 Chemistry: Chapter-05	HM-68 H.Math: Chapter-09	---
20 November 2025 (Thursday)	Chemistry Problem Solving Class-06	P-66 Physics: Chapter-10	Daily Live Exam C-64 MCQ (10×1=10); 10 min. Daily Live Exam HM-68 MCQ (10×1=10); 10 min.
21 November 2025 (Friday) **Chapter-wise Exam-41**	---	H.Math Problem Solving Class-06	--- Daily Live Exam P-66 MCQ (10×1=10); 10 min.
	Physics 2nd Paper Chapter-10 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
22 November 2025 (Saturday) **Chapter-wise Exam-42**	**Guideline Seminer-07**		
	Chemistry 2nd Paper Chapter-05 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
23 November 2025 (Sunday) **Chapter-wise Exam-43**	**H.Math 2nd Paper Chapter-09 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**		

Paper Final Exam Routine

Day & Date	Subject & Syllabus	Exam Name, Type, Mraks & Time	Set	Exam Time
25 November 2025 (Tuesday)	Physics 2nd Paper (Full Chapter)	**Paper Final Exam Physics.** **CQ** (5×10=50); 2:30 Hrs. & **MCQ** (25×1=25); 25 min.	**Board Standard** CQ 1 set & MCQ 1 set	**Online** From 8:00 AM to 11:55 PM **Offline** From 9:00 AM to 5:00 PM
27 November 2025 (Thursday)	Chemistry 2nd Paper (Full Chapter)	**Paper Final Exam Chemistry.** **CQ** (5×10=50); 2:30 Hrs. & **MCQ** (25×1=25); 25 min.		
29 November 2025 (Saturday)	H.Math 2nd Paper (Full Chapter)	**Paper Final Exam H.Math.** **CQ** (5×10=50); 2:30 Hrs. & **MCQ** (25×1=25); 25 min.		
01 December 2025 (Monday)	Biology 1st Paper Chapter-7,8,9,10,11,12	**Paper Final Exam Biology.** **CQ** (5×10=50); 2:30 Hrs. & **MCQ** (25×1=25); 25 min.		
	Biology 2nd Paper Chapter-7,8,9,10,11,12			
The routine can change or be modified in case of special necessities				
End				

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 2nd Year Academic Program Pioneer Batch (Class & Exam Syllabus-05)

Physics 2nd Paper Reference Book: শ্যামলাল TEXT		
Chapter	**Lecture**	**Lecture-based discussion topics**
Chapter-8 Introduction of Modern Physics	P-57	Compton Effect, Mathematical Examples on Compton Effect, Heisenberg's Uncertainty Principle, Mathematical Examples.
Chapter-9 Atomic Model & Nuclear Physics	P-58	Structure of Atom, Thomson's atomic model. Rutherford's alpha-particle experiment, Solar model, Bohr's atomic model, atomic radius and energy, Structure of nucleus, Quantities of nucleus.
	P-59	Radioactivity, Radioactive ray, Alpha, Beta and gamma radiation, Rules of radioactive transformation, Radioactive decay, Equation of decay, Transformation law.
	P-60	Half-life and average-life, Mass defect and binding energy, nuclear reaction, Fission, fusion and nuclear reactor.
Chapter-10 Semi-Conductor & Electronics	P-61	Energy band, Conductor, Semi-conductor and insulator with respect to band theory, Effect of temperature on semi-conductor, Pure and impure semi-conductor, P-type and n-type semi-conductor, p-n junction diode.
	P-62	Biasing in p-n junction, Forward and reverse bias, Ideal diode model, Model of constant voltage drop, General mathematical problems related to Diode.
	P-63	General mathematical problems related to Diode, use of diode as a rectifier.
	P-64	Structure of transistor, Basic combinations of transistors, Mechanism of p-n-p transistor, Properties of a transistor
	P-65	Use of transistor as an amplifier, Use of transistor as a switch, Applying Kirchhoff's law in a transistor.
	P-66	Numeric system, Introduction to various numeric system, Transformation of various numeric system, Binary addition, subtraction, multiplication and division.
Chapter-11 Astronomy	P-67	The Mystery of the Creation of the Universe; The Fate of the Universe in the Light of Physics.
	P-68	Fundamental Matter and Events of the Universe, Principles—Radio Telescope, Optical Telescope, Gamma and X-rays, Artificial Satellites.

Chemistry 2nd Paper Reference Book: শ্যামলাল TEXT		
Chapter	**Lecture**	**Lecture-based discussion topics**
Chapter-4 Electro-chemistry	C-59	Rechargable battery(lead storage & lithium), pros and cons of these batteries, benefit of using lithium ion battery, fuel cell and it's varients, anode & cathod of fuel cell, comparison between fuel cell and battery.
	C-60	sturcture of hydrogen fuel cell & chemical reaction, PEM fuel cell, benefit of hydrogen fuel cell, pH meter & it's usage, determining pH by using pH meter+ related math.
Chapter-5 Economical chemistry	C-61	gas fields in bangladesh, components of natural gas, coal field in bangladesh,, usage of coal and it's quality, possibilities in bd according to the resource, remarkable industry based on resources in bangladesh, principle of urea preparation
	C-62	Principle of glass preparation, Principle of ceramic preparation, Principle of paper preparation, Principle of cement preparation, Principle of leather tanning, pollutants of cemant industry, pollutants of urea industry, pollutants of leather industry, pollutants of textile industry
	C-63	Principle to maintain air pollution, ETP Principle, recycling of iron, alluminium, glass, paper, plastic, social and environmental usage of iron.
	C-64	Importance of recycling of iron, alluminium, glass,paper, plastic, pros and cons of using coal based electric field, nano particles, comparison between nano particles and molecules, industrial use of nano particles.

H.Math 2nd Paper Reference Book: মাওলালা TEXT		
Chapter	**Lecture**	**Lecture-based discussion topics**
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-8 Statics	HM-57	Exercise-8.3; Triangle related problems in the case of similar parallel forces, determining the pressure and reaction forces related problems.
	HM-58	Exercise-8.3; Moment of force, couple.
Chapter-9 Motion of particles in a plane	HM-59	Exercise-9.1; Displacement, velocity, average speed and velocity, distance between moving objects, finding the velocity.
	HM-60	Exercise-9.1; Crossing a river related problem.
	HM-61	Exercise-9.2; Determining relative velocity, determining relative velocity related problems.
	HM-62	Exercise-9.3; Uniform acceleration, laws of motion of a particle moving in a straight line with uniform acceleration, description of motion with the help of diagrams and solution of laws of motion problems.
	HM-63	Exercise-9.3; Bullet related, tiger-deer and bus-passenger related problems.
	HM-64	Exercise-9.3; Train collision, distance covered in t-th second. Exercise-9.4; Freely falling object and its laws.
	HM-65	Exercise-9.4; Object thrown downwards from a certain height, Maximum height and flight time of an object thrown above the ground, Object thrown upwards from a certain height.
	HM-66	Exercise-9.4; Speed of an object thrown from a moving platform, Object falling into a well; Exercise-9.5; Motion of a particle projected on a vertical surface (projectile), determination of the position and velocity of the particle at a given time, determination of the velocity and direction of the particle at a given height.
	HM-67	Exercise-9.5; Equation of various quantities of projectile (range, maximum height, travel time).
	HM-68	Exercise-9.5; Equation of the trajectory of projectile, projectile thrown from a given height.