HSC 1st Year Academic Program Progressive Batch

Class & Exam Routine (Part-01)

Online Batch Time
English Version – 3:00 pm

Online Exam Time
From 9:00 am to 11:00 pm

Date and time	Live Class	Live Exam
August 23, 2024 (Friday) Orientation Class Evening – 7.30 pm		
24 August 2024 (Saturday)	**Live Class (C-05+06)** Chemistry: Chapter- 02	**Basic Introductory** Exam **MCQ** (10×1=10); 10 min.
25 August 2024 (Sunday)	**Live Class (P-03+04)** Physics: Chapter- 02	Daily Live Exam (C-05+06) **MCQ** (10×1=10); 10 min
26 August 2024 (Monday)	**Live Class (HM-11+12)** H.Math: Chapter- 03	Daily Live Exam (P-03+04) **MCQ** (10×1=10); 10 min
27 August 2024 (Tuesday)	**Live Class (P-05+06)** Physics: Chapter- 02	Daily Live Exam (HM-11+12) **MCQ** (10×1=10); 10 min
28 August 2024 (Wednesday)	**Live Class (C-07+08)** Chemistry: Chapter- 02	Daily Live Exam (P-05+06) **MCQ** (10×1=10); 10 min
29 August 2024 (Thursday)	**Live Class (B-01+02)** Botany: Botany- 01	Daily Live Exam (C-07+08) **MCQ** (10×1=10); 10 min
01 September 2024 (Sunday)	**Live Class (C-09+10)** Chemistry: Chapter- 02	Daily Live Exam (B-01+02) **MCQ** (10×1=10); 10 min
02 September 2024 (Monday)	**Live Class (HM-13+14)** H.Math: Chapter- 03	Daily Live Exam (C-09+10) **MCQ** (10×1=10); 10 min
03 September 2024 (Tuesday)	**Live Class (P-07+08)** Physics: Chapter- 02	Daily Live Exam (HM-13+14) **MCQ** (10×1=10); 10 min
04 September 2024 (Wednesday)	**Live Class (C-11+12)** Chemistry: Chapter- 02	Daily Live Exam (P-07+08) **MCQ** (10×1=10); 10 min
05 September 2024 (Thursday)	**Live Class (B-03+04)** Botany: Botany- 01	Daily Live Exam (C-11+12) **MCQ** (10×1=10); 10 min
07 September 2024 (Saturday)	Chapter-wise Exam [**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.**	
08 September 2024 (Sunday)	**Live Class (C-13+14)** Chemistry: Chapter- 02	Daily Live Exam (B-03+04) **MCQ** (10×1=10); 10 min
09 September 2024 (Monday)	**Live Class (HM-15+16)** H.Math: Chapter- 03	Daily Live Exam (C-13+14) **MCQ** (10×1=10); 10 min
10 September 2024 (Tuesday)	**Live Class (P-09+10)** Physics: Chapter- 02	Daily Live Exam (HM-15+16) **MCQ** (10×1=10); 10 min
11 September 2024 (Wednesday)	**Live Class (C-15+16)** Chemistry: Chapter- 02	Daily Live Exam (P-09+10) **MCQ** (10×1=10); 10 min
12 September 2024 (Thursday)	**Live Class (B-05+06)** Botany: Botany- 01	Daily Live Exam (C-15+16) **MCQ** (10×1=10); 10 min
13 September 2024 (Friday)	Chapter-wise Exam [**H.Math 1st Paper Chapter-03**] **(Part-01); Lecture HM-11 to 16; (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**	
15 September 2024 (Sunday)	**Live Class (P-11+12)** Physics: Chapter- 02	Daily Live Exam (B-05+06) **MCQ** (10×1=10); 10 min
16 September 2024 (Monday)	**Live Class (HM-17+18)** H.Math: Chapter- 03	Daily Live Exam (P-11+12) **MCQ** (10×1=10); 10 min
17 September 2024 (Tuesday)	**Live Class (P-13+14)** Physics: Chapter- 02	Daily Live Exam (HM-17+18) **MCQ** (10×1=10); 10 min
18 September 2024 (Wednesday)	**Live Class (C-17+18)** Chemistry: Chapter- 02	Daily Live Exam (P-13+14) **MCQ** (10×1=10); 10 min
19 September 2024 (Thursday)	**Live Class (B-07+08)** Botany: Botany- 01	Daily Live Exam (C-17+18) **MCQ** (10×1=10); 10 min
20 September 2024 (Friday)	Chapter-wise Exam [**Physics 1st Paper Chapter-02**] **(CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**	
22 September 2024 (Sunday)	**Live Class (Z-01+02)** Zoology: Chapter- 01	Daily Live Exam (B-07+08) **MCQ** (10×1=10); 10 min
23 September 2024 (Monday)	**Live Class (HM-19+20)** H.Math: Chapter- 03	Daily Live Exam (Z-01+02) **MCQ** (10×1=10); 10 min
24 September 2024 (Tuesday)	**Live Class (P-01+02)** Physics: Chapter- 01	Daily Live Exam (HM-19+20) **MCQ** (10×1=10); 10 min
25 September 2024 (Wednesday)	**Live Class (C-19+20)** Chemistry: Chapter- 02	Daily Live Exam (P-01+02) **MCQ** (10×1=10); 10 min
26 September 2024 (Thursday)	**Live Class (Z-03+04)** Zoology: Chapter- 01	Daily Live Exam (C-19+20) **MCQ** (10×1=10); 10 min

27 September 2024 (Friday)	**Chapter-wise Exam [Botany Chapter-01] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**
28 September 2024 (Saturday)	**Chapter-wise Exam [Physics 1st Paper Chapter-01] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**
29 September 2024 (Sunday)	**Live Class (HM-21+22)** H.Math: Chapter- 03	Daily Live Exam (Z-03+04) **MCQ** (10×1=10); 10 min
30 September 2024 (Monday)	**Live Class (Z-05+06)** Zoology: Chapter- 01	Daily Live Exam (HM-21+22) **MCQ** (10×1=10); 10 min
01 October 2024 (Tuesday)	**Live Class (HM-23+24)** H.Math: Chapter- 03	Daily Live Exam (Z-05+06) **MCQ** (10×1=10); 10 min
02 October 2024 (Wednesday)	**Live Class (C-21+22)** Chemistry: Chapter- 02	Daily Live Exam (HM-23+24) **MCQ** (10×1=10); 10 min

Next Class and Exam Routine (Part-02) will be published.......

Online Classes & Exam Procedure:

* Go to this website **udvash.com** and click on **'Join Now'** menu to give **Live Class & Exam**. **Login** to Class **11th academic program Progressive Batch** using your admitted registration number to participate in Classes and exams.

* The **Daily Live Exam** will run from **09:00 am to 11:00 pm** as per the date mentioned in the routine. A student can participate in the **Live Exam** only once during this period. However, for more practice, students can participate in the **Practice Exam** of the same syllabus multiple times.

HSC 1st Year Academic Program Progressive Batch Part-01 Syllabus-2024 (Online)

	Physics 1st paper (Reference Book: UDVASH Parallel Text)	
Chapter	**Lecture**	**Syllabus**
Chapter-1 Physical World and Measurement	P-01	Scope of Physics, Physics and Other Branches of Science, Evolution of Physics, Definition of concepts, formulae, postulates and theories of Physics. Measurement, Unit, Dimension, Equation of Dimension, Principle of Homogeneity, Unit conversion of physical quantities, Limitations of dimensional equations, Error, Instrumental Errors, Observational Errors, Random Errors, Systematic Errors, Least Count Error, Calculation of Error, Accuracy and Precision, Significant Figures.
	P-02	Some instruments of measurement, Vernier Scale, Slide Callipers, Screw Gauge, Spherometer, Scale Balance, All Important Formulae at a Glance, Mathematical Problems.
Chapter-2 Vector	P-03	Quantity, Scalar quantity and Vector quantity, Expression of Vector Quantity, Different types of Vectors, Addition of Vectors: Resultant.
	P-04	Law of Parallelogram, Determination of the Resultant of Two Vectors, Determination of the Direction of Resultant, Some Special Cases of the Law of Parallelogram.
	P-05	Some Characteristics of Vector Addition, Commutative Law, Associative Law, Distributive Law, Resolution of Vector, Determination of the Resultant of More than Two Vectors.
	P-06	Some Uses of Vector Resolution, Towing a boat, Lawn Roller, Concept of River and Boat.
	P-07	River, and Boat related.
	P-08	Subtraction of Vectors, Relative Velocity.
	P-09	Expression of Relative Velocity, Expression of Vectors in the Cartesian Coordinate System.
	P-10	Addition and Subtraction of Vectors Resolved into Components, Determination of Position Vector, Vector in Three-Dimensional Coordinate System.
	P-11	Multiplication of Vector, Multiplication of Vector Quantity with Scalar Quantity.
	P-12	Dot Multiplication of Vectors, Cross Multiplication of Vectors.
	P-13	Calculus, Differentiation, Integration, Functions with Multiple Variables and Partial Differentiation.
	P-14	Scalar and Vector Field, Gradient, Divergence, Curl.

	Chemistry 1st Paper (Reference Book: UDVASH Parallel Text)	
Chapter	**Lecture**	**Syllabus**
Chapter-2 Qualitative Chemistry Introduction	C-05	Fundamental particles of atoms, introduction, and atomic models- electron, proton and neutrons discussion, atomic mass unit, atomic expression, isotope, isotone, isobar, isoelectronic, isomer.
	C-06	Radioactive isotope and nuclear reaction (Transmutation, fission and fusion), Rutherford's atomic model discussion.
	C-07	Bohr's atomic model discussion, Application of atomic models and Quantum Mechanics-Derivation for v, r, n, E from Bohr's model, Related Math.
	C-08	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

	C-10	Significance of Quantum Number, 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 product, 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	solvent extraction.
	C-22	Nernst's distribution formula, chromatography, column chromatography, thin layer chromatography, paper chromatography, importance of qualitative analysis.

H.Math 1st Paper (Reference Book: UDVASH Parallel Text)		
Chapter	Lecture	Syllabus
Chapter-3 Straight line	HM-11	Exercise – 3.1; Coordinate system and distance between two points, Cartesian coordinate system, Polar coordinate system, transformation of coordinate systems related.
	HM-12	Exercise – 3.1; Distance between two points, Problems relating to the distance between two points.
	HM-13	Exercise – 3.2; Bisector formula, with respect to the coordinates of the internal/external bisector point.
	HM-14	Exercise – 3.2; Parallelogram/Square/Triangle/Circle related, Exercise – 3.3; Area of a polygon, finding area of a triangle by coordinates of vertices of a triangle.
	HM-15	Exercise – 3.3; Displacement parallel to axis, related to finding area, condition of three points being parallel, related to determining the ratio of the bisector of one line by another line.
	HM-16	Exercise – 3.4; Locus, related to determining the equation of locus.
	HM-17	Exercise – 3.5; Slope and equation of a straight line, Problems on Slope and equation of a straight line.
	HM-18	Exercise – 3.5; Relation in terms of two equations pointing to the same straight line, conversion from the general equation of a straight line to an equation of different shapes, intersection of two straight lines.
	HM-19	Exercise – 3.5; Area related, Locus, Exercise – 3.6; The condition that three straight lines are concentric, two parallel straight lines related, Regarding straight lines parallel to a straight line.
	HM-20	Exercise – 3.6; Regarding two straight lines perpendicular to each other, equation of a straight line through the point of intersection of two straight lines.
	HM-21	Exercise – 3.6; Angles included by two straight lines, at different centers.
	HM-22	Exercise – 3.7; Perpendicular distance from a given point to a given straight line, position of the point with respect to the straight line.
	HM-23	Exercise – 3.7; segmentation of the segment joining two points by a line, The perpendicular distance between two parallel straight lines, the equation of the bisector of the angle between two non-parallel straight lines.
	HM-24	Exercise – 3.7; Find the equation of the isosceles of the angle under various conditions, Regarding image.

Botany (Reference Book: UDVASH Parallel Text)		
Chapter	Lecture	Syllabus
Chapter-1 Cell and its Structure	B-01	Cells, endosymbiosis, cell characteristics, cytology, cell theory, cell types, plant cell, cell wall.
	B-02	Protoplast, cell membrane, cytoplasm and organelles, ribosomes.
	B-03	Endoplasmic reticulum, Golgi bodies, lysosomes, mitochondria.
	B-04	Plastid, centriole, cytoskeleton, peroxisome, glyoxysome, vacuole.
	B-05	Nucleus, Cell inclusions, Chromosome.
	B-06	Hereditary material, DNA, RNA.
	B-07	DNA replication, Transcription, Reverse Transcription.
	B-08	Translation, Central Dogma of Biology, Gene, Genetic Code.

Zoology (Reference Book: UDVASH Parallel Text)		
Chapter	Lecture	Syllabus
Chapter-1 Animal diversity and Classification	Z-01	Animal diversity: Types, Animal Classification: Basis and principles of Animal Classification.
	Z-02	Nomenclature of Animals, codes of Nomenclature of Animals, Major phylums of animal kingdom: Non-chordates.
	Z-03	Poriphera, Cnidaria, Platyheminthes.
	Z-04	Nematoda, Mollusca, Annelida.
	Z-05	Arthropoda, Echinodermata.
	Z-06	Chordata: Characteristics of the various subphylums and Classes of the order Chordata, Classification of vertebrata.

For any information regarding the online program contact the following numbers

Dhaka Branches: Mirpur-01713-236705, Rupnagar-01713-236734, Cantonment-01713-236724, Uttara-01713-236707, Mohammadpur-01713-236701 Science Lab.-01713-236706, Farmgate (Green Road)-01713-236710, Farmgate (Malek Tower)-01713-236711, Shantinagar-01713-236703 Malibagh-01713-236702, Motijheel-01713-236908, Basabo-01713-236722, Banshri-01713-236723, Laxmibazar-01713-236720, Jatrabari-01713-236719 Dania-01713-236718, Savar-01713-236721, Gazipur-01713-236746, Narayanganj-01713-236717, Konapara-01713-236757, Tongi-01713-236759 Bakshibazar-01713-236712, Khilgaon-01713-236768.

Branches outside Dhaka: Mymensingh (Natun Bazar)-01713-236716, Mymensingh (KB)-01713-236769, Kishoreganj-01713-236739, Netrokona- 01713-236767 Jamalpur-01713-236740, Sherpur-01713-236749, Tangail-01713-236737, Sirajganj-01713-236742, Bogura-01713-236727 Gaibandha-01713-236755 Rangpur (Medical Mor)-01713-236726, Rangpur (Khamar Mor)-01713-236783, Kurigram-01713-236753, Lalmonirhat-01713-236777, Saidpur-01713-236741 Dinajpur-01713-236733, Thakurgaon-01713-236748, Panchagarh-01713-236778 Joypurhat-01713-236754, Naogaon-01713-236756 Chapainawabganj-01713-236747, Rajshahi-01713-236713, Natore-01713-236751, Pabna-01713-236736, Kushtia-01713-236735, Meherpur-01313-368670 Chuadanga-01713236764, Jhenaidah-01713-23676, Magura-01713-236752 Jashore-01713-236731, Narail-01713-236788, Khulna- 01713-236715 Satkhira- 01713-236750, Pirajpur-01713-236790, Bhola-01713-236791, Barishal-01713-236730, Patukhali-01713-236784, Shariatpur-01713-236782 Gopalganj-01713-236760, Faridpur-01713-236732, Rajbari-01713-236786 Manikganj-01713-236763 Munshiganj-01713-236762, Brahmanbaria- 01713-236743 Narsingdi-01713-236738, Cumilla-01713-236728, Chandpur-01713-236765, Noakhali-01713-236745, Feni-01713-236744, Cox's Bazar-01713-236766 Chittagong (Chawkbazar)-01713-236714, Chittagong (Halisahar)-01713-236758 Sylhet-01713-236729, Habiganj-01713-236773, Moulvibazar-01713-23678 Sunamganj-01713-236779.