

Udvash Academic and Admission care
Class 11 Academic Program-2023 (Online)
Science (English version)

<ul style="list-style-type: none"> * Physics, Chemistry, H.Math and Biology. These 4 Subjects will be taught according to the full syllabus of class Eleven. * Live Class will be held 5 days a week (Sun-Thursday) through Zoom App. * Total Class - 112, Total Lectures - 224, (Double lecture classes will be held every day). * Total number of exams - Daily Live Exam - 112, Daily Practice Exam -112, Chapter Wise Live Exam - 37. * Multi-color pdf class notes of each online class will be provided. * Video replay of each online class will be stored on the students' ID till the board exam. 	<ul style="list-style-type: none"> * Round the clock Q & A service will be provided by expert teacher panel. * Chapter wise Parallel text of each subject will be provided free. * Daily MCQ Live & Practice Exam (Online) on previous day's class. * Chapter-wise Live CQ+MCQ Exam (Online + In branch) at the end of each chapter. * Central Assessment of Creative Answer Papers. * Analysis report of each exam and results on Auto SMS. * Course Fee 32,000/- (Tk. Thirty-two thousand only). * Admission can be possible by coming directly to the branch or through online payment. * Website - www.udvash.com, Helpline - 09666775566
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Online Live Class Schedule	English Version: 6.30pm	Online Live exam Schedule	From 10:00 am to 10:00 pm
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Online Class & Exam Routine (Part-01)

Date & Day	Live Class (According to the Batch time of the Enrolled Students)	Live Exam (10 am to 10pm)
19.02.23 (Sunday)	Live Class (P-01+02) Physics: Chapter-02	---
20.02.23 (Monday)	Live Class (C-01+02) Chemistry: Chapter-02	Daily Live Exam (P-01+02) MCQ (10×1=10); 10 min.
All classes and examinations will be closed on the occasion of International Mother Language Day on February 21		
22.02.23 (Wednesday)	Live Class (B-01+02) Botany: Chapter-01	Daily Live Exam (C-01+02) MCQ (10×1=10); 10 min.
23.02.23 (Thursday)	Live Class (HM-01+02) H.Math: Chapter-01	Daily Live Exam (B-01+02) MCQ (10×1=10); 10 min.
26.02.23 (Sunday)	Live Class (P-03+04) Physics: Chapter-02	Daily Live Exam (HM-01+02) MCQ (10×1=10); 10 min.
27.02.23 (Monday)	Live Class (C-03+04) Chemistry: Chapter-02	Daily Live Exam (P-03+04) MCQ (10×1=10); 10 min.
28.02.23 (Tuesday)	Live Class (P-05+06) Physics: Chapter-02	Daily Live Exam (C-03+04) MCQ (10×1=10); 10 min.
02.03.23 (Wednesday)	Live Class (B-03+04) Botany: Chapter-01	Daily Live Exam (P-05+06) MCQ (10×1=10); 10 min.
03.03.23 (Thursday)	Live Class (HM-03+04) H.Math: Chapter-01	Daily Live Exam (B-03+04) MCQ (10×1=10); 10 min.
05.03.23 (Sunday)	Live Class (P-07+08) Physics: Chapter-02	Daily Live Exam (HM-03+04) MCQ (10×1=10); 10 min.
06.03.23 (Monday)	Live Class (C-05+06) Chemistry: Chapter-02	Daily Live Exam (P-07+08) MCQ (10×1=10); 10 min.
07.03.23 (Tuesday)	Live Class (C-07+08) Chemistry: Chapter-02	Daily Live Exam (C-05+06) MCQ (10×1=10); 10 min.
All classes and examinations will be closed on the occasion of Shab-e-Barat on March 8		
09.03.23 (Thursday)	Live Class (HM-05+06) H.Math: Chapter-01	Daily Live Exam (C-07+08) MCQ (10×1=10); 10 min.
12.03.23 (Sunday)	Live Class (P-09) Physics: Chapter-03	Daily Live Exam (HM-05+06) MCQ (10×1=10); 10 min.
Chapter-wise Exam [Physics Chapter-02] (CQ 2×10=20); Time: 50min & (MCQ 10×1=10); Time: 10min.		
13.03.23 (Monday)	Live Class (C-09+10) Chemistry: Chapter-02	Daily Live Exam (P-09) MCQ (10×1=10); 10 min.
14.03.23 (Tuesday)	Live Class (HM-07+08) H.Math: Chapter-01	Daily Live Exam (C-09+10) MCQ (10×1=10); 10 min.
15.03.23 (Wednesday)	Live Class (B-05+06) Botany: Chapter-01	Daily Live Exam (HM-07+08) MCQ (10×1=10); 10 min.
16.03.23 (Thursday)	Live Class (HM-09) H.Math: Chapter-06	Daily Live Exam (B-05+06) MCQ (10×1=10); 10 min.
Chapter-wise Exam [H.Math Chapter-01] (CQ 2×10=20); Time: 50min & (MCQ 10×1=10); Time: 10min.		
19.03.23 (Sunday)	Live Class (P-10+11) Physics: Chapter-03	Daily Live Exam (HM-09) MCQ (10×1=10); 10 min.
20.03.23 (Monday)	Live Class (C-11+12) Chemistry: Chapter-02	Daily Live Exam (P-10+11) MCQ (10×1=10); 10 min.
21.03.23 (Tuesday)	Live Class (B-07) Botany: Chapter-02	Daily Live Exam (C-11+12) MCQ (10×1=10); 10 min.
Chapter-wise Exam [Botany Chapter-01] (CQ 2×10=20); Time: 50min & (MCQ 10×1=10); Time: 10min.		
22.03.23 (Wednesday)	Live Class (B-08+09) Botany: Chapter-02	Daily Live Exam (B-07) MCQ (10×1=10); 10 min.
23.03.23 (Thursday)	Live Class (HM-10+11) H.Math: Chapter-06	Daily Live Exam (B-08+09) MCQ (10×1=10); 10 min.
All classes and examinations will be closed on the occasion of Independence Day on March 26		
27.03.23 (Monday)	Live Class (C-13) Chemistry: Chapter-01	Daily Live Exam (HM-10+11) MCQ (10×1=10); 10 min.
Chapter-wise Exam [Chemistry Chapter-02] (CQ 2×10=20); Time: 50min & (MCQ 10×1=10); Time: 10min.		
28.03.23 (Tuesday)	Live Class (P-12+13) Physics: Chapter-03	Daily Live Exam (C-13) MCQ (10×1=10); 10 min.
29.03.23 (Wednesday)	Live Class (Z-01+02) Zoology: Chapter-01	Daily Live Exam (P-12+13) MCQ (10×1=10); 10 min.
Chapter-wise Exam [Botany Chapter-02] (CQ 2×10=20); Time: 50min & (MCQ 10×1=10); Time: 10min.		
30.03.23 (Thursday)	Live Class (HM-12+13) H.Math: Chapter-06	Daily Live Exam (Z-01+02) MCQ (10×1=10); 10 min.
02.04.23 (Sunday)	Live Class (P-14+15) Physics: Chapter-03	Daily Live Exam (HM-12+13) MCQ (10×1=10); 10 min.
03.04.23 (Monday)	Live Class (C-14+15) Chemistry: Chapter-01	Daily Live Exam (P-14+15) MCQ (10×1=10); 10 min.
04.04.23 (Tuesday)	Live Class (Z-03+04) Zoology: Chapter-01	Daily Live Exam (C-14+15) MCQ (10×1=10); 10 min.
05.04.23 (Wednesday)	Live Class (Z-05) Zoology: Chapter-03	Daily Live Exam (Z-03+04) MCQ (10×1=10); 10 min.
Chapter-wise Exam [Zoology Chapter-01] (CQ 2×10=20); Time: 50min & (MCQ 10×1=10); Time: 10min.		
06.04.23 (Thursday)	Live Class (Z-06+07) Zoology: Chapter-03	Daily Live Exam (Z-05) MCQ (10×1=10); 10 min.
09.04.23 (Sunday)	Live Class (Z-08+09) Zoology: Chapter-03	Daily Live Exam (Z-06+07) MCQ (10×1=10); 10 min.
10.04.23 (Monday)	---	Daily Live Exam (Z-08+09) MCQ (10×1=10); 10 min.

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

Online Classes & Exam Procedure:

- * **Live Class** will be held through **Zoom App**. Therefore, every student is requested to **install Zoom App** on his/her mobile/laptop/desktop in advance.
- * Go to this website **udvash.com** and click on '**Join Now**' menu to give **Live Class & Exam**. Login to class **11th academic program** using your admitted registration number to participate in classes and exams.
- * The **Daily Live Exam** will run from **10:00 am to 10:00 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.

Class 11 Academic Program Part-01 Syllabus-2023 (Online)

Physics 1 st Paper (Reference Book: UDVASH Parallel Text)			
Chapter	Class	Lecture	Syllabus
Chapter-02 Vector	Day-01	P-01	Quantity, Scalar quantity and Vector quantity, Expression of Vector Quantity, Different types of Vectors, Addition of Vectors: Resultant.
		P-02	Law of Parallelogram, Determination of the Resultant of Two Vectors, Determination of the Direction of Resultant, Some Special Cases of the Law of Parallelogram, Some Characteristics of Vector Addition, Commutative Law, Associative Law, Distributive Law.
	Day-02	P-03	Resolution of Vector, Determination of the Resultant of More than Two Vectors, Some Uses of Vector Resolution, Towing a boat, Lawn Roller, River, and Boat.
		P-04	Subtraction of Vectors, Relative Velocity, Expression of Relative Velocity.
	Day-03	P-05	Expression of Vectors in the Cartesian Coordinate System, Addition and Subtraction of Vectors Resolved into Components, Determination of Position Vector, Vector in Three-Dimensional Coordinate System.
		P-06	Multiplication of Vector, Multiplication of Vector Quantity with Scalar Quantity, Dot Multiplication of Vectors, Cross Multiplication of Vectors.
	Day-04	P-07	Calculus, Differentiation, Integration, Functions with Multiple Variables and Partial Differentiation, Scalar and Vector Field, Gradient, Divergence, Curl.
		P-08	All Important Formula in a Body, Crucial Practice Problems, Mathematical Problems, Solutions to Mathematical Problems.
Chapter -03 Dynamics	Day-05	P-09	Reference Frame, Rest and Motion, Distance and Displacement, Average Velocity and Average Speed, Instantaneous Velocity and Instantaneous Speed, Acceleration.
		Chapter-wise Exam [Physics Chapter-02] (CQ 2×10=20); Time: 50min & (MCQ 10×1=10); Time: 10min.	
	Day-06	P-10	Laws of Motion for Uniform Acceleration.
		P-11	Describing motion with Graphs, Determining velocity with the concepts of slope and area.
	Day-07	P-12	Motion of Free-Falling Bodies, Vertical Projectile, Some Special Equations for Vertical Projectiles, Proof of Galileo's Laws from the Equations of Motion.
		P-13	Motion of an object in a curve, Vector Equations of the Laws of Motion for Uniform Acceleration, Projectile Motion, Equations for Projectile Motion, Equations relating to Projectiles.
	Day-08	P-14	Uniform Circular Motion, Some Quantities related to Uniform Circular Motion, Centripetal Acceleration, Equations relating to Centripetal Acceleration, Resultant of Acceleration, Equations for Angular Motion.
		P-15	All Important Formula in a Body, Crucial Practice Problems, Mathematical Problems, Solutions to mathematical problems.

Chemistry 1 st Paper (Reference Book: UDVASH Parallel Text)			
Chapter	Class	Lecture	Syllabus
Chapter-02 Qualitative Chemistry	Day-01	C-01	Fundamental particles of atoms, introduction, and atomic models- electron, proton and neutrons discussion, atomic mass unit, atomic expression, isotope, isotone, isobar, isoelectron, isomer.
		C-02	Radioactive isotope and nuclear reaction (Transmutation, fission and fusion), Rutherford's atomic model discussion.
	Day-02	C-03	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-04	De Broglie's equation, Heisenberg's uncertainty principle, Schrodinger's wave equation, Related Math .
	Day-03	C-05	Quantum Number - Principal Quantum number, Subsidiary Quantum Number, Magnetic Quantum Number, Spin Quantum Number, Significance of Quantum Number, Orbit and Orbital Discussion, Quantum Subshell shapes and discussion, Calculation of total orbital and electron number.
		C-06	Electronic Configuration - Aufbau Principle, Hund's Rule, Pauli's Exclusion Principle, e^- configuration of compounds and ions, stability of electronic configuration.
	Day-04	C-07	Electromagnetic spectrum - Discussion, quantities related to radiation, regions of electromagnetic ray, classification of spectrum, identification of compounds using spectrum, spectrum of H atom + Rydberg Discussions, Related Math .
		C-08	Lines of spectrum, Uses of UV in fake money and passport identification, Uses of IR ray in medical science, Use of MRI in diagnosis.
	Day-05	C-09	Solubility and Solubility Product - Mixture and Solution, Solubility, Factors influencing solubility, solubility product, ionic product, Related Math .
		C-10	Principle of Solubility Product, Application of the principle of Solubility Product, Common ion and its effect to change solubility, Application of common ion, effect of pH on solubility, Related Math .
	Day-06	C-11	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-12	Applications of Qualitative Chemistry (Physical Analysis) - crystallization, distillation and partial distillation, steam distillation, sublimation, low pressure distillation, solvent extraction, Nernst's distribution formula, chromatography, column chromatography, thin layer chromatography, paper chromatography, importance of qualitative analysis.
Chapter-01 Safe Use of Laboratory	Day-07	C-13	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, solute measuring instruments - chemical instruments, Paul-Bunge balances, method of weighing in balances, digital balances.
		Chapter-wise Exam [Chemistry Chapter-02] (CQ 2×10=20); Time: 50min & (MCQ 10×1=10); Time: 10min.	
	Day-08	C-14	Concentration - Molarity, Molality, Dilution, Standard Substances (Primary & Secondary), Titration - Method, Indicator, End Point & Equivalent Point, Formulation of Titration Equations + Math, 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.
C-15		Storage, Use, Precautions and Disposal of Chemicals - Storage of Chemicals, Waste Management, Use and Precautions of Chemicals, 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, eyecap, sink, use of fire extinguisher, first aid box, first aid and Use of first aids.	

Higher Math 1st Paper (Reference Book: **UDVASH Parallel Text)**

Chapter	Class	Lecture	Syllabus
Chapter-01 Matrix and Determinant	Day-01	HM-01	Types Of Matrix, Problems Related to Types of Matrix.
		HM-02	Addition and subtraction of matrices, Matrix Addition and Subtraction, Equality of matrices, Equality of matrices, Scalar Product of Matrix.
	Day-02	HM-03	Properties of scalar, Matrix multiplication of matrices, Problems related to multiplication of matrix, Exponent of matrix, Problems related to polynomials in matrices.
		HM-04	Some more special matrices, Properties of some special matrices, Related to trace of matrix, Real life of Matrix.
	Day-03	HM-05	Minor of determinant, Co-factor, Value of Determinant, Determinant values, coefficients, regression problems.
		HM-06	Singular and Non-singular matrix, Problems related to singular and non-singular matrix, Inverse Matrix, Problems related to inverse matrix.
	Day-04	HM-07	Properties of determinant, Invariant Proof Problems with Determinants, Prove without expansion, Solving equations with determinants.
		HM-08	Solving set of equations – Cramer's Method, Solving Set of Equations – Inverse Matrix Method, Problems related to solving set of equations, Special formulas regarding the value of determinants, Special formulas for determining value of determinants, All important formulas together.
Chapter-06 Trigonometric ratio	Day-05	HM-09	Types of trigonometry, Quadrant, Two-Dimensional Angle, Measurement of two-dimensional angles, Radian angle is a constant angle, Relation between Degrees and Radians, Three-Dimensional Angle and its Measurement, Problems related to interconversion of sexagesimal, centesimal, and circular systems of angle, Determination of length of arc.
		Chapter-wise Exam [H.Math Chapter-01] (CQ 2×10=20); Time: 50min & (MCQ 10×1=10); Time: 10min.	
	Day-06	HM-10	Determination of area of sector, Angle between hour and minute hands of a clock, Interior Angle of Polygon.
		HM-11	Similar Triangle, Ratio of trigonometric angles, Basic theory, Trigonometric ratio of axial angles, Relationship between ratios of trigonometric angles, Problems related to mutual conversion and determination of values of trigonometric ratios.
	Day-07	HM-12	Proof related problems, Trigonometric identities related problems, Circular functions and their domain range, Domain and Range of Circular functions at a glance.
HM-13		Graphs of trigonometric function, Problems related to Graphs, Period of Trigonometric functions, Different changes in the graph of trigonometric functions, Related to Fundamental Period.	

Botany (Reference Book: **UDVASH Parallel Text)**

Chapter	Class	Lecture	Syllabus
Chapter- 01 Cell and its Structure	Day-01	B-01	Cell, Endosymbiosis, Characteristics of a cell, Cytology, Cell theory, Classification of cell, Plant cell, Cell wall, Protoplast, Cell membrane, Cytoplasm, Cell organelle, Ribosome, Endoplasmic reticulum.
		B-02	Golgi body, Lysosome, Mitochondria, Plastid, Centriole, Cytoskeleton, Peroxisome, Glyoxisome, Cell vacuole.
	Day-02	B-03	Nucleus, Cell inclusions, Chromosome.
		B-04	Genetic substances, DNA, RNA, Central Dogma of biology.
	Day-03	B-05	Replication, Transcription, Reverse transcription.
		B-06	Translation, Gene, Genetic code.
Chapter- 02 Cell Division	Day-04	B-07	Amitosis, Cell cycle, Control of cell cycle, Interphase, G ₁ phase, S phase, G ₂ phase.
		Chapter-wise Exam [Biology Chapter-01] (CQ 2×10=20); Time: 50min & (MCQ 10×1=10); Time: 10min.	
	Day-05	B-08	M-phase (Prophage, Pro-metaphase, Metaphase, Anaphase, Telophase), Importance of mitosis, Uncontrolled mitosis, Cell death.
		B-09	Myosis cell division, Myosis 1 (Prophage-1, Metaphage-1, Anaphage-1, Telophage-1), Interkinesis-1, myosis 2 (prophage-2, metaphage-2, anaphage-2, telophage-2), Cytokinesis-2, Characteristics of myosis, Importance of myosis, Crossing over.

Zoology (Reference Book: **UDVASH Parallel Text)**

Chapter	Class	Lecture	Syllabus
Chapter-01 Animal diversity and Classification	Day-01	Z-01	Animal diversity, its classification, Basis of animal classification, Principles of animal classification, Nomenclature, Rules of animal nomenclature, Classification of animal kingdom.
		Z-02	Major phyla: Poriphera, Cnideria, Platyhelminthes, Nematoda.
	Day-02	Z-03	Major phyla: Mollusca, Annelida, Arthropoda, Echinodermata.
		Z-04	Chordata, Subphylum and classes under chordata, Classification of vertebrates.
Chapter-03 Human Physiology: Digestion and Absorption	Day-03	Z-05	Digestion, Types of digestion, Digestive system, Oral cavity, Digestion of food in oral cavity, Dental formula, Pharynx, Oesophagus.
		Chapter-wise Exam [Zoology Chapter-01] (CQ 2×10=20); Time: 50min & (MCQ 10×1=10); Time: 10min.	
	Day-04	Z-06	Stomach, Digestion of food in stomach, Small intestine, Digestion of food in small intestine, Large intestine.
		Z-07	Digestive glands: Salivary gland, Liver, Pancreas.
	Day-05	Z-08	Gastric gland, Intestinal gland, Role of nervous and endocrine system in digestion.
Z-09		Absorption of food, Fate of absorbed food, obesity.	

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-01713-236711, Azimpur-01713-236725, Shantinagar-0367813, Malibagh-01713-236702, Motijheel-01713-236908
Basabo-01713-236722, Banshri-01713-236723, Laxmibazar-01713-236720, Jatrabari-01713-236719, Dania-01713-236718, Savar-01713-2316217
Gazipur-01713-2346217, Narayanganj-01713-236717, Konapara-01713-236757, Tongi-01713236759, Bakshibazar-01713236712, Khilgaon-01713236768.

Branches outside Dhaka: Mymensingh-01713-236716, Kishoreganj-01713-236739, Jamalpur-01713-236740, Sherpur-01713-236749, Tangail-01713-236737
Pabna-01713-236736, Sirajganj-01713-2367046732, Rangpur-01713-2367042-2631, Kurigram-01713-236753, Gaibandha-01713-236755, Saidpur-01713-236741
Bogra-01713-236727, Joypurhat-01713-236754, Dinajpur-01713-236733, Thakurgaon-01713-236748, Rajshahi-01713-236713, Naogaon-01713-236756
Natore-01713-236751, Chapainawabganj-01713-236747, Kushtia-01713-236735, Faridpur-01713-236732, Magura-01713-236752, Jessore-01713-236731
Khulna- 01713-236715, Satkhira- 01713-236750, Barisal-01713-236730, Sylhet-01713-236729, Brahmanbaria- 01713-236743, Narsingdi-01713-236738
Comilla-01713-236728, Noakhali-01713-236745, Feni-01713-236744, Gopalganj-01713-236760, Jhenaidah-01713-236761, Munshiganj-01713-236762
Chittagong (Chawkbazar)-01713-236714, Chittagong (Halisahar)-01713-236758, Manikganj-01713-236763, Chuadanga-01713236764, Chandpur-01713-236765
Cox's Bazar-01713-236766, Netrokona- 01713-236767, Mymensingh (KB)-01713-236769