

UDVASH Academic and Admission care Class 11 Academic Program-2024 (Online)

Science (English version)

* Physics, Chemistry, H.Math and Biology. These 4 Subjects will be taught	* Daily MCQ Live & Practice Exam (Online) on previous day's class.
according to the full syllabus of class Eleven.	* Chapter-wise Live CQ & Pre-Admission MCQ Exam (Online+In branch)
* Live interactive Class will be held 5 days (Sunday-Thursday) a week through	at the end of each chapter (Friday & Saturday).
Smartboard.	* Central Assessment of Creative Answer Papers
* Total Class - 120, Total Lectures - 240, (Double lecture classes will be held	Central Assessment of Creative Answer Lapers.
every day).	* Analysis report of each exam and results on Auto SMS .
* Total number of exams - Daily Live Exam - 120, Daily Practice Exam -120,	* Course Fee 16,000/- (Tk. Sixten thousand only).
Chapter Wise Live Exam - 38.	* Admission can be possible by coming directly to the branch or through
* Multi-color pdf class notes of each online class will be provided.	online payment.
* Video replay of each online class will be stored on the students' ID till the	* HSC 1st year full syllabus will be completed in 6 months.
board exam.	* Website and beek and
* Round the clock Ω & A service will be provided by an expert teacher name	* website - www.udvasn.com
tout a the clock of the service will be provided by an experience panel.	* Helpline - 09666775566
* Chapter wise Parallel text of each subject will be provided.	

Online Live Class ScheduleEnglish Version: 3.00pm (Sunday to Thursday)Online Live exam ScheduleFrom 09:00am to 11:55pm

Online Class & Exam Routine

15.09.23 (Friday) Orientation and Demonstration Class (Time and link to be informed in SMS)			
Date & Day	Live Class [3.00pm (Sunday to Thursday)]	Live Exam (From 09:00am to 11:55pm)	
17.09.23 (Sunday)	Live Class (P-03+04) Physics: Chapter - 02	Basic Introductory Exam MCQ (10×1=10); 10 min.	
18.09.23 (Monday)	Live Class (HM-01+02) H.Math: Chapter - 01	Daily Live Exam (P-03+04) MCQ (10×1=10); 10 min.	
19.09.23 (Tuesday)	Live Class (HM-03+04) H.Math: Chapter - 01	Daily Live Exam (HM-01+02) MCQ (10×1=10); 10 min.	
20.09.23 (Wednessday)	Live Class (C-05+06) Chemistry: Chapter - 02	Daily Live Exam (HM-03+04) MCQ (10×1=10); 10 min.	
22.09.23 (Friday)	Live Class (B-01+02) Botany: Chapter - 01	Daily Live Exam (C-05+06) MCQ (10×1=10); 10 min.	
24.09.23 (Sunday)	Live Class (P-05+06) Physics: Chapter - 02	Daily Live Exam (B-01+02) MCQ (10×1=10); 10 min.	
25.09.23 (Monday)	Live Class (HM-05+06) H.Math: Chapter - 01	Daily Live Exam (P-05+06) MCQ (10×1=10); 10 min.	
26.09.23 (Tuesday)	Live Class (HM-11+12) H.Math: Chapter - 03	Daily Live Exam (HM-05+06) MCQ (10×1=10); 10 min.	
27.09.23 (Wednessday)	Live Class (C-07+08) Chemistry: Chapter - 02	Daily Live Exam (HM-11+12) MCQ (10×1=10); 10 min.	
28.09.23 (Thursday)	Live Class (B-03+04) Botany: Chapter - 02	Daily Live Exam (C-07+08) MCQ (10×1=10); 10 min.	
29.09.23 (Friday)	Chapter-wise Exam [H.Math Chapter-01] (CQ 2×10=20);	Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.	
01.10.23 (Sunday)	Live Class (P-07+08) Physics: Chapter - 02	Daily Live Exam (B-03+04) MCQ (10×1=10); 10 min.	
02.10.23 (Monday)	Live Class (B-05+06) Botany: Chapter - 01	Daily Live Exam (P-07+08) MCQ (10×1=10); 10 min.	
03.10.23 (Tuesday)	Live Class (HM-13+14) H.Math: Chapter - 03	Daily Live Exam (B-05+06) MCQ (10×1=10); 10 min.	
04.10.23 (Wednessday)	Live Class (C-09+10) Chemistry: Chapter - 02	Daily Live Exam (HM-13+14) MCQ (10×1=10); 10 min.	
05.10.23 (Thursday)	Live Class (B-07+08) Botany: Chapter – 01,02	Daily Live Exam (C-09+10) MCQ (10×1=10); 10 min.	
08.10.23 (Sunday)	Live Class (P-09+10) Physics: Chapter - 02	Daily Live Exam (B-07+08) MCQ (10×1=10); 10 min.	
09.10.23 (Monday)	Live Class (B-09+10) Botany: Chapter - 02	Daily Live Exam (P-09+10) MCQ (10×1=10); 10 min.	
10.10.23 (Tuesday)	Live Class (HM-15+16) H.Math: Chapter - 03	Daily Live Exam (B-09+10) MCQ (10×1=10); 10 min.	
11.10.23 (Wednessday)	Live Class (Z-01+02) Zoology: Chapter - 01	Daily Live Exam (HM-15+16) MCQ (10×1=10); 10 min.	
12.10.23 (Thursday)	Live Class (C-11+12) Chemistry: Chapter - 02	Daily Live Exam (Z-01+02) MCQ (10×1=10); 10 min.	
13.10.23 (Friday)	Chapter-wise Exam [Botany Chapter-01] (CQ 2×10=20);	Fime: 50min & (Pre-Admission MCQ 10×1=10); Time: 20min.	
14.10.23 (Saturday)	Chapter-wise Exam [Botany Chapter-02] (CQ 2×10=20);	Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 20min.	
15.10.23 (Sunday)	Live Class (P-11+12) Physics: Chapter - 02	Daily Live Exam (C-11+12) MCQ (10×1=10); 10 min.	
16.10.23 (Monday)	Live Class (C-13+14) Chemistry: Chapter - 02	Daily Live Exam (P-11+12) MCQ (10×1=10); 10 min.	
17.10.23 (Tuesday)	Live Class (Z-03+04) Zoology: Chapter - 01	Daily Live Exam (C-13+14) MCQ (10×1=10); 10 min.	
18.10.23 (Wednessday)	Live Class (Z-13+14) Zoology: Chapter - 03	Daily Live Exam (Z-03+04) MCQ (10×1=10); 10 min.	
19.10.23 (Thursday)	Live Class (HM-17+18) H.Math: Chapter - 03	Daily Live Exam (Z-13+14) MCQ (10×1=10); 10 min.	
20.10.23 (Friday)	Chapter-wise Exam [Physics Chapter-02] (CQ 2×10=20);	Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.	
21.10.23 (Saturday)	Chapter-wise Exam [Zoology Chapter-01] (CQ 2×10=20);	Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 20min.	
Online classe	s and exams will be closed from 22.10.23 (Sunday) to 24.10.2	23 (Tuesday) on the occasion of Sharadiya Durga Puja.	
25.10.23 (Wednessday)	Live Class (C-15+16) Chemistry: Chapter - 02	Daily Live Exam (HM-17+18) MCQ (10×1=10); 10 min.	
26.10.23 (Thursday)	Live Class (HM-19+20) H.Math: Chapter - 03	Daily Live Exam (C-15+16) MCQ (10×1=10); 10 min.	
29.10.23 (Sunday)	Live Class (P-01+02) Physics: Chapter - 01	Daily Live Exam (HM-19+20) MCQ (10×1=10); 10 min.	
30.10.23 (Monday)	Live Class (Z-15+16) Zoology: Chapter - 03	Daily Live Exam (P-01+02) MCQ (10×1=10); 10 min.	
31.10.23 (Tuesday)	Live Class (HM-21+22) H.Math: Chapter – 03	Daily Live Exam (Z-15+16) MCQ (10×1=10); 10 min.	

01.11.23 (Wednessday)	Live Class (C-17+18) Chemistry: Chapter - 02	Daily Live Exam (HM-21+22) MCQ (10×1=10); 10 min.
02.11.23 (Thursday)	Live Class (HM-39+40) H.Math: Chapter – 07	Daily Live Exam (C-17+18) MCQ (10×1=10); 10 min.
03.11.23 (Friday)	Chapter-wise Exam [Physics Chapter-01] (CQ 2×10=20);	Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 20min.
04.11.23 (Saturday)	Chapter-wise Exam [Zoology Chapter-03] (CQ 2×10=20);	Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.
05.11.23 (Sunday)	Live Class (P-13+14) Physics: Chapter - 03	Daily Live Exam (HM-39+40) MCQ (10×1=10); 10 min.
06.11.23 (Monday)	Live Class (HM-41+42) H.Math: Chapter – 07	Daily Live Exam (P-13+14) MCQ (10×1=10); 10 min.
07.11.23 (Tuesday)	Live Class (HM-43+44) H.Math: Chapter - 07	Daily Live Exam (HM-41+42) MCQ (10×1=10); 10 min.
08.11.23 (Wednessday)	Live Class (C-19+20) Chemistry: Chapter - 02	Daily Live Exam (HM-43+44) MCQ (10×1=10); 10 min.
09.11.23 (Thursday)	Live Class (HM-45+46) H.Math: Chapter - 07	Daily Live Exam (C-19+20) MCQ (10×1=10); 10 min.
10.11.23 (Friday)	Chapter-wise Exam [H.Math Chapter-03] (CQ 2×10=20);	Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.
11.11.23 (Saturday)	Chapter-wise Exam [Chemistry Chapter-02] (CQ 2×10=20	0); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.
12.11.23 (Sunday)	Live Class (P-15+16) Physics: Chapter - 03	Daily Live Exam (HM-45+46) MCQ (10×1=10); 10 min.
13.11.23 (Monday)	Live Class (HM-47+48) H.Math: Chapter - 07	Daily Live Exam (P-15+16) MCQ (10×1=10); 10 min.
14.11.23 (Tuesday)	Live Class (HM-49+50) H.Math: Chapter - 07	Daily Live Exam (HM-47+48) MCQ (10×1=10); 10 min.
15.11.23 (Wednessday)	Live Class (C-01+02) Chemistry: Chapter - 01	Daily Live Exam (HM-49+50) MCQ (10×1=10); 10 min.
16.11.23 (Thursday)	Live Class (C-03+04) Chemistry: Chapter - 01	Daily Live Exam (C-01+02) MCQ (10×1=10); 10 min.
17.11.23 (Friday)	Chapter-wise Exam [H.Math Chapter-07] (CQ 2×10=20);	Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.
18.11.23 (Saturday)	Chapter-wise Exam [Chemistry Chapter-01] (CQ 2×10=20	0); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.
19.11.23 (Sunday)	Live Class (P-17+18) Physics: Chapter - 03	Daily Live Exam (C-03+04) MCQ (10×1=10); 10 min.
20.11.23 (Monday)		Daily Live Exam (P-17+18) MCQ (10×1=10); 10 min.
Next Class & 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 using your admitted registration number to participate in classes and exams.

* The Daily Live Exam will run from 09:00 am to 11:55 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-2024 (Online)

Physics 1st Paper (Reference Book: UDVASH Parallel Text)			
Chapter	Lecture	Syllabus	
Chapter-01 Physical World and	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.	
Measurement	P-02	Some instruments of measurement, Vernier Scale, Slide Callipers, Screw Gauge, Spherometer, Scale Balance, All Important Formulae at a Glance, Mathematical Problems.	
	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, Some Characteristics of Vector Addition, Commutative Law, Associative Law, Distributive Law.	
	P-05	Resolution of Vector, Determination of the Resultant of More than Two Vectors, Some Uses of Vector Resolution.	
	P-06	Towing a boat, Lawn Roller, River, and Boat.	
Chapter-02	P-07	Subtraction of Vectors, Relative Velocity, Expression of Relative Velocity.	
Vector	P-08	Expression of Vectors in the Cartesian Coordinate System, Addition and Subtraction of Vectors Resolved into Components,	
	1-00	Determination of Position Vector, Vector in Three-Dimensional Coordinate System.	
	P-09	Multiplication of Vector, Multiplication of Vector Quantity with Scalar Quantity.	
	P-10	Dot Multiplication of Vectors, Cross Multiplication of Vectors.	
	P-11	Calculus, Differentiation, Integration, Functions with Multiple Variables and Partial Differentiation.	
	P-12	Scalar and Vector Field, Gradient, Divergence, Curl.	
	P-13	Reference Frame, Rest and Motion, Distance and Displacement, Average Velocity and Average Speed, Instantaneous Velocity and Instantaneous Speed, Acceleration. Laws of Motion for Uniform Acceleration.	
	P-14	Describing motion with Graphs, Determining velocity with the concepts of slope and area.	
Chapter-03 Dynamics	P-15	Motion of Free-Falling Bodies, Vertical Projectile, Some Special Equations for Vertical Projectiles, Proof of Galileo's Laws from the Equations of Motion.	
	P-16	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.	
	P-17	Some problems related to projectiles.	
	P-18	Uniform Circular Motion, Some Quantities related to Uniform Circular Motion, Centripetal Acceleration, Equations relating to Centripetal Acceleration, Resultant of Acceleration, Equations for Angular Motion.	

Chemistry 1st Paper (Reference Book: UDVASH Parallel Text)		
Chapter	Lecture	Syllabus
Chapter-2	C-05	Fundamental particles of atoms, introduction, and atomic models- electron, proton and neutrons discussion, atomic mass unit, atomic
		expression, isotope,
	C-06	Radioactive isotope and neuclear reaction (Transmutation, fission and fusion), Rutherford's atomic model discussion.

Qualitative Chemistry	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.
Introduction	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, Significance of Quantum Number, Orbit and Orbital Discussion, Quantum Subshell shapes and discussion, Calculation of total orbital and electron number.
	C-10	Electronic Configuration- Aufbau Principle, Hund's Rule, Pauli's Exclusion Principle, e configuration of compounds and ions, stability of electronic configuration.
	C-11	Electromagnetic spectrum- Discussion, quantities related to radiation, regions of electromagnetic ray, classification of spectrum, identification of compounds using spectrum.
	C-12	Spectrum of H atom + Rydberg Discussions, Related Math ,
	C-13	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-14	Solubility and Solubility Product- Mixture and Solution, Solubility, Factors influencing solubility,
	C-15	Solubility product, ionic product, Related Math. Principle of Solubility Product, Application of the principle of Solubility Product
	C-16	Common ion and its effect to change solubility, Application of common ion, effect of pH on solubility, Related Math.
	C-17	Qualitative Analysis (Ion identification)- Flame test, wet test (+ve and –ve ion identification), detecting presence of Carbon in organic compounds, detection of N, S, X (F, Cl, Br, I) in organic compounds.
	C-18	Applications of Qualitative Chemistry (Physical Analysis)- crystallization, distillation and partial distillation, steam distillation, sublimation, low pressure distillation,
	C-19	Solvent extraction.
	C-20	Nernst's distribution formula, chromatography, column chromatography, thin layer chromatography, paper chromatography, importance of qualitative analysis.
	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.
Chapter-1 Safe Use Of Laboratory	C-02	Solute measuring instruments - chemical instruments, Paul-Bunge balances, method of weighing in balances, digital balances. Concentration- Molarity, Molality, Dilution, Standard Substances (Primary & Secondary), Titration- Method, Indicator, End Point & Equivalent Point, Formulation of Titration Equations + Math.
	C-03	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, eyecap, sink, use of fire extinguisher, first aid box, first aid and Use of first aids.

H.Math 1st Paper (Reference Book: UDVASH Parallel Text)			
Chapter	Lecture	Syllabus	
Chapter-01	HM-01	Exercise – 1.1; Types of Matrix, Problems Related to Types of Matrix, Addition and subtraction of matrices, Problems on Matrix Addition and Subtraction, Equality of matrices, Problems on Equality of matrices.	
	HM-02	Exercise – 1.1; Scalar Product of Matrix, Matrix multiplication of matrices, Problems related to multiplication of matrix, Exponent of matrix, Problems related to polynomials in matrices, Some special matrices, Properties of some special matrices.	
	HM-03	Exercise – 1.1; Related to trace of matrix, Matrix in Real life, Problems related to Matrix in Real life, Exercise – 1.2; Minor of determinant, Co-factor, Value of Determinant, Determinant values, coefficients, regression problems.	
Determinant	HM-04	Exercise – 1.2; Singular and Non-singular matrix, Problems related to singular and non-singular matrix, Inverse Matrix, Problems related to inverse matrix.	
	HM-05	Exercise – 1.2; Properties of determinant, Invariant Proof Problems with Determinants, prove without expansion, Solving equations with determinants.	
	HM-06	Exercise – 1.2; 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.	
	HM-11	Exercise – 3.1; Coordinate system and distance between two points, Cartesian coordinate system, Polar coordinate system, transformation of coordinate systems, Distance between two points.	
	HM-12	Exercise – 3.1 ; Problems relating to the distance between two points, Exercise – 3.2 ; Bisector formula, with respect to the coordinates of the internal/external bisector point.	
	HM-13	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-14	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-15	Exercise – 3.4 ; Locus, related to determining the equation of locus, Exercise – 3.5 ; Slope and equation of a straight line, Problems on Slope and equation of a straight line.	
Chapter-03 Straight line	HM-16	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, area related.	
	HM-17	Exercise – 3.5; 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-18	Exercise – 3.6 ; Regarding two straight lines perpendicular to each other, determining the distance from an external point to another straight line perpendicular and parallel to a straight line, equation of a straight line through the point of intersection of two straight lines.	
	HM-19	Exercise – 3.6; Angles included by two straight lines, at different centers.	
	HM-20	Exercise – 3.7; Perpendicular distance from a given point to a given straight line, position of the point with respect to the straight line, segmentation of the segment joining two points by a line.	
	HM-21	Exercise – 3.7 ; The perpendicular distance between two parallel straight lines, the equation of the bisector of the angle between two non-parallel straight lines.	
	HM-22	Exercise – 3.7; Find the equation of the isosceles of the angle under various conditions, Regarding image.	
Chapter-07 Trigonometric Ratios	HM-39	Exercise – 7.1; θ or Trigonometric ratio of positive acute angle: (- θ) or Trigonometric ratio of negative angle: (90° – θ), i.e. Trigonometric ratio of θ angle: Co-function: (90° + θ), (180° – θ), (180° + θ), (270° - θ), (270° + θ) are the trigonometric ratios of the angles, Trigonometric Equations and Problems involving Associated Angles, Sum of Squares of Trigonometric Ratios and Problems.	
	HM-40	Exercise – 7.1; Properties and problems of tangent or cotangent ratios, determination of values and problems using various trigonometric formulae, Exercise - 7.2; Trigonometric Proportions of Compound Angles, A and B are positive acute angles where $A > B$, Problems on Trigonometric ratios.	
	HM-41	Exercise - 7.2; Formulas and Problems on A±B, Expansion related problem, $\frac{\cos \cos A \pm \sin \sin A}{\cos \cos A \mp \sin \sin A}$ formula related problems, A + B = constant related problems.	

	HM-42	Exercise - 7.2; Determination of maximum/minimum values of trigonometric expressions, Exercise - 7.3; Formulas and problems related
		to $sin(A+B) \pm sin(A-B)$ or $cos(A+B) \pm cos(A-B)$.
	HM-43	Exercise - 7.3; $TF_1C \pm TF_2D$ related problems, $sinA + cosA$ related problems.
	IIM 44	Exercise - 7.4; Trigonometric Ratios of Multiple Angles, Formulas and Problems related to Trigonometric Ratios of Angles 2A, Series
	EIN1-44	(Arithmetic and Geometric series) and Problems.
	HM-45	Exercise - 7.4; Periodic Square Roots related and Problems, Trigonometric Ratios of 3A Angles and Problems related to Trigonometric
		Ratios of 3A Angles, Trigonometric Ratios of Certain Angles.
	HM-46	Exercise - 7.5; Formulas and problems related to proof, problems related to determination of values of various trigonometric ratios from
		values of $\cos x + \cos y$ and $\sin x + \sin y$.
	HM-47	Exercise - 7.6; problems related to tangent and cotangent, related to sine and cosine.
	HM-48	Exercise - 7.7; Related to sine rule of triangle, tangent rule or Napier's formula, Tangent rule related problems.
	HM-49	Exercise - 7.7; Cosine rule, Cosine rule of triangle, Projection rule, Perpendicular projection, Progression Related, Trigonometric ratios
		and formulas of half-angles of triangles.
	HM-50	Exercise - 7.7; Area of Triangle, Relationship between Inradius and Circumradius: Area, Determining nature of triangle subject to
		conditions, Others.

Botany (Reference Book: UDVASH Parallel Text)			
Chapter	Lecture	Syllabus	
	B-01	Cells, endosymbiosis, cell characteristics, cytology, cell theory, cell types, plant cell, cell wall.	
	B-02	Protoplast, cell membrane, cytoplasm and organelles, ribosomes.	
Chapter-01	B-03	Endoplasmic reticulum, Golgi bodies, lysosomes, mitochondria.	
Cell and its	B-04	Plastid, centriole, cytoskeleton, peroxisome, glyoxysome, vacuole.	
Structure	B-05	Nucleus, Cell inclusions, Chromosome.	
	B-06	Hereditary material, DNA, RNA, DNA replication.	
	B-07	Transcription, Reverse Transcription, Translation, Central Dogma of Biology, Gene, Genetic Code.	
	B-08	Amitosis, Cell Cycle: Cell Cycle Regulators, Interphase: G ₁ Phase, S Phase, G ₂ Phase.	
Chapter- 02 Cell Division	B-09	M-phase (prophase, prometaphase, metaphase, anaphase, telophase), importance of mitosis, uncontrolled mitosis, cell death.	
	B-10	Meiosis Cell Division: Meiosis-1: Prophase-1, Metaphase-1, Anaphase-1, Telophase-1, Interkinesis-1, Meiosis-2: Prophase-2, Metaphase-2, Anaphase-2, Telophase-2, Cytokinesis-2, Characteristics of Meiosis, Importance of Meiosis, Crossing over.	

Zoology (Reference Book: UDVASH Parallel Text)			
Chapter	Lecture	Syllabus	
Chapter-01	Z-01	Animal diversity: Types, Animal classification: Basis and principles of Animal classification, Nomenclature of Animals, codes of Nomenclature of Animals.	
Animal	Z-02	Major phylums of animal kingdom: Non-chordates: Poriphera, Cnidaria, Platyheminthes, Nematoda.	
Classification	Z-03	Mollusca, Annelida, Arthropoda, Echinodermata.	
	Z-04	Chordata: Characteristics of the various subphylums and classes of the order Chordata, classification of vertebrata.	
Chapter-03	Z-13	Digestion, types of digestion, digestive system, oral cavity, digestion of food inside oral cavity, dental formula, pharynx, oesophagus.	
Human	Z-14	Stomach, digestion of food inside stomach, Small intestine, digestion of food inside small intestine, Large intestine.	
Physiology:	Z-15	Digestive glands: salivary gland, Liver, pancreas, gastric gland, intestinal gland, role of nervous system and hormone in digestion.	
Digestion and Absorption	Z-16	Absorption of digested food materials, fate of absorbed food materials, obesity.	

For any information regarding the online program contact the following numbers

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