Class Nine Academic Program 2025

(Online)

Class & Exam Routine Part- 02

Date & Day	Live Class (English Version: 1:30pm)	Live Exam	Online: 9:00am to 11:00pm / Offline: 9:00am to 4:00pm
02 March 2025 (Sunday)	Live Class (C-15+16); Chemistry: Chapter- 04	Daily Live Exam (P-13+14) MCQ (10×1=10); 10 min.	
03 March 2025 (Monday)	Live Class (HM-15+16); H.Math: Chapter- 03	Daily Live Exam (C-15+16) MCQ (10×1=10); 10 min.	
04 March 2025 (Tuesday)	Live Class (M-07+08); Math: Chapter- 02	Daily Live Exam (HM-15+16) MCQ (10×1=10); 10 min.	
05 March 2025 (Wednesday)	Live Class (B-15+16); Biology: Chapter- 04	Daily Live Exam (M-07+08) MCQ (10×1=10); 10 min.	
06 March 2025 (Thursday)	Live Class (P-15+16); Physics: Chapter- 03	Daily Live Exam (B-15+16) MCQ (10×1=10); 10 min.	
07 March 2025 (Friday) Chapter Wise Exam: Chemistry- Chapter- 01 (Concepts of Chemistry) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.			
08 March 2025 (Saturday) Chapter Wise Exam: Math- Chapter- 01 (Real Numbers) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.			
09 March 2025 (Sunday)	Live Class (ICT-01+02); ICT: Chapter- 01	Daily Live Exam (P-15+16) MCQ (10×1=10); 10 min.	
10 March 2025 (Monday)	Live Class (HM-17+18); H.Math: Chapter- 03	Daily Live Exam (ICT-01+02) MCQ (10×1=10); 10 min.	
11 March 2025 (Tuesday)	Live Class (M-25+26); Math: Chapter- 06	Daily Live Exam (HM-17+18) MCQ (10×1=10); 10 min.	
12 March 2025 (Wednesday)	Live Class (B-17+18); Biology: Chapter- 05	Daily Live Exam (M-25+26) MCQ (10×1=10); 10 min.	
13 March 2025 (Thursday)	Live Class (P-17+18); Physics: Chapter- 03	Daily Live Exam (B-17+18) MCQ (10×1=10); 10 min.	
14 March 2025 (Friday) Chapter Wise Exam: H.Math- Chapter- 02 (Algebraic Expression) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.			
15 March 2025 (Saturday) Chapter Wise Exam: Biology- Chapter- 03 (Cell Division) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.			
16 March 2025 (Sunday)	Live Class (C-17+18); Chemistry: Chapter- 05	Daily Live Exam (P-17+18) MCQ (10×1=10); 10 min.	
17 March 2025 (Monday)	Live Class (HM-19+20); H.Math: Chapter- 03	Daily Live Exam (C-17+18) MCQ (10×1=10); 10 min.	
18 March 2025 (Tuesday)	Live Class (M-27+28); Math: Chapter- 06	Daily Live Exam (HM-19+20) MCQ (10×1=10); 10 min.	
19 March 2025 (Wednesday)	Live Class (B-19+20); Biology: Chapter- 05	Daily Live Exam (M-27+28) MCQ (10×1=10); 10 min.	
20 March 2025 (Thursday)	Live Class (P-19+20); Physics: Chapter- 04	Daily Live Exam (B-19+20) MCQ (10×1=10); 10 min.	
21 March 2025 (Friday) Chapter Wise Exam: Math- Chapter- 02 (Sets and Functions) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.			
22 March 2025 (Saturday) Chapter Wise Exam: Chemistry- Chapter- 04 (Periodic Table) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.			
23 March 2025 (Sunday)	Live Class (C-19+20); Chemistry: Chapter- 05	Daily Live Exam (P-19+20) MCQ (10×1=10); 10 min.	
24 March 2025 (Monday)	Live Class (HM-31+32); H.Math: Chapter- 08	Daily Live Exam (C-19+20) MCQ (10×1=10); 10 min.	
25 March 2025 (Tuesday)	Live Class (M-51+52); Math: Chapter- 13	Daily Live Exam (HM-31+32) MCQ (10×1=10); 10 min.	
All classes & exams will be closed on the occasion of the holy Eid-ul-Fitr [From 26.03.2025 to 05.04.2025].			
06 April 2025 (Sunday)	Live Class (C-21+22); Chemistry: Chapter- 05	Daily Live Exam (M-51+52) MCQ (10×1=10); 10 min.	
07 April 2025 (Monday)	Live Class (HM-33+34); H.Math: Chapter- 08	Daily Live Exam (C-21+22) MCQ (10×1=10); 10 min.	
08 April 2025 (Tuesday)	Live Class (M-29+30); Math: Chapter- 07	Daily Live Exam (HM-33+34) MCQ (10×1=10); 10 min.	
09 April 2025 (Wednesday)	Live Class (B-21+22); Biology: Chapter- 05	Daily Live Exam (M-29+30) MCQ (10×1=10); 10 min.	
10 April 2025 (Thursday)	Live Class (P-21+22); Physics: Chapter- 04	Daily Live Exam (B-21+22) MCQ (10×1=10); 10 min.	
11 April 2025 (Friday) Chapter Wise Exam: Physics- Chapter- 03 (Force) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.			
12 April 2025 (Saturday) Chapter Wise Exam: ICT- Chapter- 01 () MCQ (15×1=15); 15 min & Written (10 marks); 15 min.			
13 April 2025 (Sunday)	Live Class (C-23+24); Chemistry: Chapter- 06	Daily Live Exam (P-21+22) MCQ (10×1=10); 10 min.	
All classes & exams will be closed on April 14, 2025 (Monday) on the occasion of Bengali New Year.			
15 April 2025 (Tuesday)	Live Class (M-31+32); Math: Chapter- 07	Daily Live Exam (C- 23+24) MCQ (10×1=10); 10 min.	
16 April 2025 (Wednesday)	Live Class (B-23+24); Biology: Chapter- 05	Daily Live Exam (M-31+32) MCQ (10×1=10); 10 min.	
17 April 2025 (Thursday)	Live Class (P-23+24); Physics: Chapter- 04	Daily Live Exam (B-23+24) MCQ (10×1=10); 10 min.	
18 April 2025 (Friday) Chapter Wise Exam: H.Math- Chapter- 03 (Geometry) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.			
19 April 2025 (Saturday) Chapter Wise Exam: Biology- Chapter- 04 (Bioenergetics) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.			
20 April 2025 (Sunday)	Live Class (C-25+26); Chemistry: Chapter- 06	Daily Live Exam (P-23+24) MCQ (10×1=10); 10 min.	

21 April 2025 (Monday)	**Live Class (HM-25+26); H.Math: Chapter- 05**	Daily Live Exam **(C-25+26) MCQ** (10×1=10); 10 min.
22 April 2025 (Tuesday)	**Live Class (M-39+40); Math: Chapter- 09**	Daily Live Exam **(HM-25+26) MCQ** (10×1=10); 10 min.
23 April 2025 (Wednesday)	**Live Class (ICT-03+04); ICT: Chapter- 02**	Daily Live Exam **(M-39+40) MCQ** (10×1=10); 10 min.
24 April 2025 (Thursday)	**Live Class (P-25+26); Physics: Chapter- 05**	Daily Live Exam **(ICT-03+04) MCQ** (10×1=10); 10 min.
25 April 2025 (Friday) Chapter Wise Exam: H.Math- Chapter- 08 (Trigonometry) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.		
26 April 2025 (Saturday) Chapter Wise Exam: Chemistry- Chapter- 05 (Chemical Bond-Partial) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.		
27 April 2025 (Sunday)	**Live Class (C-27+28); Chemistry: Chapter- 06**	Daily Live Exam **(P-25+26) MCQ** (10×1=10); 10 min.
28 April 2025 (Monday)	**Live Class (HM-27+28); H.Math: Chapter- 05**	Daily Live Exam **(C-27+28) MCQ** (10×1=10); 10 min.
29 April 2025 (Tuesday)	**Live Class (M-41+42); Math: Chapter- 09**	Daily Live Exam **(HM-27+28) MCQ** (10×1=10); 10 min.
30 April 2025 (Wednesday)	**Live Class (B-25+26); Biology: Chapter- 06**	Daily Live Exam **(M-41+42) MCQ** (10×1=10); 10 min.
01 May 2025 (Thursday)	**Live Class (P-27+28); Physics: Chapter- 05**	Daily Live Exam **(B-25+26) MCQ** (10×1=10); 10 min.
02 May 2025 (Friday) Chapter Wise Exam: Math- Chapter- 06 (Lines, Angles and Triangles) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.		
03 May 2025 (Saturday) Chapter Wise Exam: Biology- Chapter- 05 (Food, Nutrition and Digestion) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.		
Next Class & Exam Routine (Part-03) will be published in...		

Online Class & Exam System:

- Scan the QR code below to attend classes and exams or visit **online.udvash-unmesh.com** and **login** using the registration number provided.
- You can appear once between **9 am** to **11 pm** as per date mentioned in **daily exam** routine.
  However, for more practice, students can participate in the **Practice Exam** of the same syllabus multiple times.
- Use the **Past Class** option to view recorded videos and PDFs of daily classes.
- **Q&A** option can be used 24/7 to solve any subject related problems after the class.
- All those admitted in the 'Combo Batch' can participate in the Chapter wise exams online as well as in any nearby branch.
- Join our Facebook group **(https://www.facebook.com/groups/class6789.udvashunmesh)** to get all information in time.

Physics		
Chapter	**Lecture**	**Syllabus**
Chapter-03 **Force**	**P-15**	Newton's Third Law
	P-16	Collision, Conservation of Momentum and Energy, Safe Journey: Velocity and Motion.
	P-17	Frictional Force, Types of Friction (Static Friction, Kinetic Friction, Rolling Friction), Effects of Friction on Motion (Tyre's Surface, Smoothness off road, Controlling Motion and Breaking Force), Increase and Decrease of Friction, Friction: An essential hazard.
	P-18	Mathematical problems
Chapter-04 **Work, Power and Energy**	**P-19**	Work, Energy
	P-20	Different forms of energy, Kinetic Energy, Potential Energy
	P-21	Sources of Energy, Non-Renewable Energy (Fuel Energy, Nuclear Energy), Renewable Energy (Hydroelectricity,Biomass, Solar energy, Wind energy, Bio fuel, Geothermal energy), Transformation of energy and impact on environment, Conservation and Transformation of Energy, Conservation of energy, Transformation of Energy (Electrical energy, Chemical energy, Heat energy, Mechanical energy, Light energy, Mass)
	P-22	Relation between mass and energy, Power
	P-23	Efficiency
	P-24	Mathematical problems
Chapter-05 **State of Matter and Pressure**	**P-25**	Pressure, Density, Uses of Density in our Daily Life.
	P-26	Pressure in Liquid, Archimedes Law and Buoyancy.
	P-27	Flotation and Immersion of a Body.
	P-28	Pascal's Law.

Chemistry		
Chapter	**Lecture**	**Syllabus**
Chapter-04 **Periodic Table**	**C-15**	Periodic Properties of Elements (Metallic and Non-metallic Properties, Atomic Radius/Size of atom, Ionization Energy, Electron Affinities, Electronegativity).
	C-16	The Special Names of Elements Present in Various Groups (Alkali Metals, Alkaline Earth Metals, Coin Metals, Halogen Group, Inert Gas, Transition Elements), Advantages of the Periodic Table, Element in the Same Group in the Periodic Table Show similar Chemical Properties, Lime Water Test.
Chapter-05 **Chemical Bond-Partial**	**C-17**	Valence Electrons, Valency, Radicals and Their Valencies, Chemical Formula of Compounds,
	C-18	Molecular Formula and Structural Formula, Octet and Duet Rules,
	C-19	Inert Gases and their Stability, Chemical Bonds and the Causes of their Formation, Cations and Anions
	C-20	Ionic Bond or Electrovalent Bond, Covalent Bonds, Revision
	C-21	Characteristics of Ionic and Covalent Bonds (Melting Point and Boiling Point, Solubility, Electrical Conductivity)
	C-22	Metallic bonds, Identifying bonds in the compounds.
Chapter-06 **Concept of Mole and Chemical Counting**	**C-23**	Mole, Avogadro's number, Molar Volume of Gas, Mole and Molecular Formula
	C-24	Molar Solution & Molarity, Mathematical problems
	C-25	The Percentage Composition of Elements in Compounds, Percent Composition and Empirical Formula
	C-26	Determining the Molecular Formula of a Compound from Percent Composition
	C-27	Chemical Reactions and Chemical Equations, Balancing Chemical Equations.
	C-28	Mole and Chemical Equation, Calculation of the Percentage of Yield, Limiting Reactant.
Math		
Chapter	**Lecture**	**Syllabus**
Chapter-02 **Sets and Functions**	**M-07**	Relation, Function, Example
	M-08	Exercises- 2.2
Chapter-06 **Lines, Angles and Triangles**	**M-25**	Appended Theorems (Statements of 1, 2, 3, 4, 5), Concept of space, surface, plane, line and point, Exercise-6.1, Line, Ray, Line Segment, Angle etc. Theorems- (1-4), Exercise- 6.2
	M-26	Theorem- (5-16), Exercise- (1-11) of 6.3
	M-27	Exercise 6.3 of (12-17).
	M-28	Exercise 6.3 of (18-23).
Chapter-13 **Finite series**	**M-51**	Sequences, Series, Arithmetic series, Determination of general term of arithmetic series, Sum of n terms of arithmetic series, Examples (1-6), Exercise- 13.1(1-7, 9-18).
	M-52	Exercise 13.1(8, 19-24).
Chapter-07 **Practical Geometry**	**M-29**	Construction (1, 2, 3) Exercise-7.1 (1, 2).
	M-30	Exercise – 7.1 (3-7).
	M-31	Construction (4, 5), Examples (3, 4), Exercises- 7.2 (1-10).
	M-32	Exercise 7.2 (11-19).
Chapter-09 **Trigonometric Ratio**	**M-39**	Naming of sides of right-angled triangles, Constancy of ratios of sides of similar right angled triangles, Trigonometric ratios of acute angles, Relationship among trigonometric ratios, Trigonometric identity.
	M-40	Examples (1-12), Work, Exercises - 9.1 (1-7, 19, 20).
	M-41	Exercise 9.1 (8-16).
	M-42	Exercise 9.1 (17, 18, 21-25).

H. Math		
Chapter	**Lecture**	**Syllabus**
Chapter-03 **Geometry**	**HM-15**	Projection of a point, Orthogonal projection, Theorem- 1, 2, 3, 4
	HM-16	Exercise – 3.1 (1, 2, 3, 4, 6).
	HM-17	All Theorems of Apollonius, Theorem-5, Relationship between Side-Median, Exercise-3.1 (5, 7).

	HM-18	Orthocenter, Circumcenter, Centroid, Nine Point Circle, Theorem- 6, 10, Exercise- 3.2 (8, 9), HW- 3.2 (16).
	HM-19	Theorem- 7, 8, 9, 11, 12
	HM-20	Exercise-3.2 (7, 10-14), HW-3.2 (15)
Chapter-08 **Trigonometry**	**HM-31**	Angles in Geometry and Trigonometry, Positive and Negative Angles, Units of Angle Measurement, Circular System of Measurement of Angles, Radian Angles, Relationship between Degree and Radian measure, Exercise- 8.1 (1, 2, 5, 6).
	HM-32	Exercise – 8.1 (3, 4, 7-13).
	HM-33	Trigonometric Ratios, Signs of Trigonometric Ratios in Different Quadrants, Exercise-8.2 (1-6).
	HM-34	Exercise-8.2 (7-13), Example, Exercise-8.3 (10, 12).
Chapter-05 **Equation**	**HM-25**	(Quadratic equations of one variable and their solutions), Exercise-5.1
	HM-26	(Equations with radicals, example), Exercise-5.2
	HM-27	Indicial equations, examples (12-18), work.
	HM-28	Exercise-5.3

Biology		
Chapter	**Lecture**	**Syllabus**
Chapter-04 **Bioenergetics**	**B-15**	Respiration, Types of respiration, respiratory factors (Aerobic respiration).
	B-16	Respiratory factors (anaerobic respiration). Factors affecting respiration, Significance of respiration.
Chapter-05 **Food, Nutrition and Digestion**	**B-17**	Plant mineral nutrition, Source and role of nutrients, Symptoms of nutrient deficiencies.
	B-18	Food and nutrition of animal, Components of food and their sources (Protein, Carbohydrate, Fat and oils, Vitamins).
	B-19	Components of food and their sources (Minerals, water and their source), An ideal food pyramid, Principles of food habit.
	B-20	Vitamin deficiency diseases, Energy in food ingredients and determine Heat Energy.
	B-21	BMR and BMI, Exercise and rest, Use of chemicals in food preservation.
	B-22	Digestion, Alimentary system or alimentary canal, Digestive glands, Functions of liver.
	B-23	Pancreas, Gastric glands, Intestinal glands etc.,Digestion of food, Absorption of digested food, Assimilation.
	B-24	Diseases caused by intestinal disorder, dyspepsia, Constipation, Gastric and peptic ulcer, Appendicitis, Worm related diseases, Diarrhea.
Chapter-06 **Transport in Organisms**	**B-25**	Plant and water relationship, Imbibition, Diffusion, Osmosis.
	B-26	Absorption of water and mineral salts, Translocation in plants, Necessity of translocation in plants, Translocation of water and minerals, Ascent of sap, Translocation of the substances produced in photosynthesis, Phloem translocation.

Information & Communication Technology		
Chapter	**Lecture**	**Syllabus**
Chapter-01 **Information & Communication Technology & Our Bangladesh**	**ICT-01**	The 21st century and information and communication technology, Great ICT personalities, E-learning and Bangladesh, E-Governance and Bangladesh.
	ICT-02	E-service and Bangladesh, E-commerce and Bangladesh, ICT in the Job Sector, Social Networking and ICT, Entertainment and ICT.
Chapter-02 **Computer Maintenance and Cyber Security**	**ICT-03**	Computer Maintenance, Importance of Software in the Maintenance of Computer, Installation and Uninstallation of Software, Installation of Software, Deletion of Software.
	ICT-04	Information Security and Cyber Risk, Cyber Crime, Hacking, Brute Force Attack, Data Interception, DDoS Attack, Cyber Bullying, Fake News.