

## Engineering + Biology Admission Program-2024

Offline Orientation Class: 7 September	Online Orientation Class: 31 August
Offline Class Start: 9 September	Marathon Live class Start: 3 September
Step-1: Class & Exam Routine (3 September-11 October)	

Date	Day	Offline Class (Self Batch Time)	Offline Daily Exam (Self Batch Time)	Marathon Live Class (EV-3:00pm & BV-7:30pm)	Daily Live Exam (Same Day 11:00pm to Next Day 11:00pm)	Practice Exam (MCQ) (Same Day 11:00pm to Program End)
31-Aug-24	Saturday	-	-	Online Orientation Class (7:00pm)		
01-Sep-24	Sunday	-	-	-	-	-
02-Sep-24	Monday	-	-	-	-	-
03-Sep-24	Tuesday	-	-	P-01 Part-01	P-01 Part-01 MCQ (15) + Wri. (1)	P-01 Part-01 (15)
04-Sep-24	Wednesday	-	-	P-01 Part-02	P-01 Part-02 MCQ (15) + Wri. (1)	P-01 Part-02 (15)
05-Sep-24	Thursday	-	-	C-01 Part-01	C-01 Part-01 MCQ (15) + Wri. (1)	C-01 Part-01 (15)
06-Sep-24	Friday	-	-	C-01 Part-02	C-01 Part-02 MCQ (15) + Wri. (1)	C-01 Part-02 (15)
07-Sep-24	Saturday	Offline Orientation Class (Self Batch Time)		M-01 Part-01	M-01 Part-01 MCQ (15) + Wri. (1)	M-01 Part-01 (15)
08-Sep-24	Sunday	-	-	M-01 Part-02	M-01 Part-02 MCQ (15) + Wri. (1)	M-01 Part-02 (15)
09-Sep-24	Monday	M-01	Introductory Exam MCQ (25)	*Bio-01 Part-01+02	*Bio-01 MCQ (30) + Wri. (2)	*Bio-01 (30)
10-Sep-24	Tuesday	-	-	P-02 Part-01	P-02 Part-01 MCQ (15) + Wri. (1)	P-02 Part-01 (15)
11-Sep-24	Wednesday	P-01	M-01 MCQ (20) + Wri. (1)	P-02 Part-02	P-02 Part-02 MCQ (15) + Wri. (1)	P-02 Part-02 (15)
12-Sep-24	Thursday	-	-	Engg. Weekly Live Exam-01: (P <sub>1</sub> +C <sub>1</sub> +M <sub>1</sub> ) [12-18 Sep]		Engg. W-01 (50)
				Varsity 'KA' Weekly Live Exam-01: (P <sub>1</sub> +C <sub>1</sub> +M <sub>1</sub> +Bio <sub>1</sub> /Ba/E) [12-18 Sep]		Varsity 'KA' W-01 (60)
				C-02 Part-01	C-02 Part-01 MCQ (15) + Wri. (1)	C-02 Part-01 (15)
13-Sep-24	Friday	*Bio-01/Arc-01	Introductory Exam MCQ (25)	C-02 Part-02	C-02 Part-02 MCQ (15) + Wri. (1)	C-02 Part-02 (15)
14-Sep-24	Saturday	C-01	P-01 MCQ (20) + Wri. (1)	Medical Weekly Live Exam-01: (Bio <sub>1</sub> +C <sub>1</sub> +P <sub>1</sub> +GK+E) [14-20 Sep]		Medical W-01(100)
				Varsity 'Kha' Weekly Live Exam-01: (E+GK+B) [14-20 Sep]		Varsity 'Kha' W-01 (60)
				M-02 Part-01	M-02 Part-01 MCQ (15) + Wri. (1)	M-02 Part-01 (15)
15-Sep-24	Sunday	-	-	M-02 Part-02	M-02 Part-02 MCQ (15) + Wri. (1)	M-02 Part-02 (15)
16-Sep-24	Monday	C-02	C-01 MCQ (20) + Wri. (1)	*Bio-02 Part-01+02	*Bio-02 MCQ (30) + Wri. (2)	Bio-02 (30)
17-Sep-24	Tuesday	Engg. Offline Weekly Exam-01: (P <sub>1</sub> +C <sub>1</sub> +M <sub>1</sub> )		P-03 Part-01	P-03 Part-01 MCQ (15) + Wri. (1)	P-03 Part-01 (15)
18-Sep-24	Wednesday	M-02	C-02 MCQ (20) + Wri. (1)	P-03 Part-02	P-03 Part-02 MCQ (15) + Wri. (1)	P-03 Part-02 (15)
19-Sep-24	Thursday	-	-	Engg. Weekly Live Exam-02: (P <sub>2</sub> +C <sub>2</sub> +M <sub>2</sub> ) [19-25 Sep]		Engg. W-02 (50)
				Varsity 'KA' Weekly Live Exam-02: (P <sub>2</sub> +C <sub>2</sub> +M <sub>2</sub> +Bio <sub>2</sub> /Ba/E) [19-25 Sep]		Varsity 'KA' W-02 (60)
				C-03 Part-01	C-03 Part-01 MCQ (15) + Wri. (1)	C-03 Part-01 (15)
20-Sep-24	Friday	*Bio-02/Arc-02	*Medical Offline Weekly Exam-01: (Bio <sub>1</sub> +C <sub>1</sub> +P <sub>1</sub> +GK+E)	C-03 Part-02	C-03 Part-02 MCQ (15) + Wri. (1)	C-03 Part-02 (15)
		**Varsity 'Kha' Offline Weekly Exam-01: (E+GK+B)				
21-Sep-24	Saturday	P-02	M-02 MCQ (20) + Wri. (1)	Medical Weekly Live Exam-02: (Bio <sub>2</sub> +C <sub>2</sub> +P <sub>2</sub> +GK+E) [21-27 Sep]		Medical W-02(100)
				Varsity 'Kha' Weekly Live Exam-02: (E+GK+B) [21-27 Sep]		Varsity 'Kha' W-02 (60)
				M-03 Part-01	M-03 Part-01 MCQ (15) + Wri. (1)	M-03 Part-01 (15)
22-Sep-24	Sunday	-	-	M-03 Part-02	M-03 Part-02 MCQ (15) + Wri. (1)	M-03 Part-02 (15)
23-Sep-24	Monday	P-03	P-02 MCQ (20) + Wri. (1)	*Bio-03 Part-01+02	*Bio-03 MCQ (30) + Wri. (2)	*Bio-03 (30)
24-Sep-24	Tuesday	Engg. Offline Weekly Exam-02: (P <sub>2</sub> +C <sub>2</sub> +M <sub>2</sub> )		P-04 Part-01	P-04 Part-01 MCQ (15) + Wri. (1)	P-04 Part-01 (15)
25-Sep-24	Wednesday	C-03	P-03 MCQ (20) + Wri. (1)	P-04 Part-02	P-04 Part-02 MCQ (15) + Wri. (1)	P-04 Part-02 (15)
26-Sep-24	Thursday	-	-	Engg. Weekly Live Exam-03: (P <sub>3</sub> +C <sub>3</sub> +M <sub>3</sub> ) [26 Sep-02 Oct]		Engg. W-03 (50)
				Varsity 'KA' Weekly Live Exam-03: (P <sub>3</sub> +C <sub>3</sub> +M <sub>3</sub> +Bio <sub>3</sub> /Ba/E) [26 Sep-02 Oct]		Varsity 'KA' W-03 (60)
				C-04 Part-01	C-04 Part-01 MCQ (15) + Wri. (1)	C-04 Part-01 (15)
27-Sep-24	Friday	*Bio-03/Arc-03	*Medical Offline Weekly Exam-02: (Bio <sub>2</sub> +C <sub>2</sub> +P <sub>2</sub> +GK+E)	C-04 Part-02	C-04 Part-02 MCQ (15) + Wri. (1)	C-04 Part-02 (15)
		**Varsity 'Kha' Offline Weekly Exam-02: (E+GK+B)				

28-Sep-24	Saturday	M-03	C-03 MCQ (20) + Wri. (1)	Medical Weekly Live Exam-03: (Bio <sub>3</sub> +C <sub>3</sub> +P <sub>3</sub> +GK+E) [28 Sep-04 Oct]	Medical W-03(100)	
				Varsity 'Kha' Weekly Live Exam-03: (E+GK+B) [28 Sep-04 Oct]	Varsity 'Kha' W-03 (60)	
				M-04 Part-01	M-04 Part-01 MCQ (15) + Wri. (1)	M-04 Part-01 (15)
29-Sep-24	Sunday	-	-	M-04 Part-02	M-04 Part-02 MCQ (15) + Wri. (1)	M-04 Part-02 (15)
30-Sep-24	Monday	M-04	M-03 MCQ (20) + Wri. (1)	*Bio-04 Part-01+02	*Bio-04 MCQ(30) + Wri. (2)	*Bio-04 (30)
01-Oct-24	Tuesday	<b>Engg. Offline Weekly Exam-03: (P<sub>3</sub>+C<sub>3</sub>+M<sub>3</sub>)</b>		P-05 Part-01	P-05 Part-01 MCQ (15) + Wri. (1)	P-05 Part-01 (15)
02-Oct-24	Wednesday	P-04	M-04 MCQ (20) + Wri. (1)	P-05 Part-02	P-05 Part-02 MCQ (15) + Wri. (1)	P-05 Part-02 (15)
03-Oct-24	Thursday	-	-	<b>Engg. Weekly Live Exam-04: (P<sub>4</sub>+C<sub>4</sub>+M<sub>4</sub>) [03-09 Oct]</b>		Engg. W-04 (50)
				Varsity 'KA' Weekly Live Exam -04: (P <sub>4</sub> +C <sub>4</sub> +M <sub>4</sub> +Bio <sub>4</sub> /Ba/E) [03-09 Oct]		Varsity 'KA' W-04 (60)
				C-05 Part-01	C-05 Part-01 MCQ (15) + Wri. (1)	C-05 Part-01 (15)
04-Oct-24	Friday	*Bio-04/Arc-04	*Medical Offline Weekly Exam-03: (Bio <sub>3</sub> +C <sub>3</sub> +P <sub>3</sub> +GK+E)	C-05 Part-02	C-05 Part-02 MCQ (15) + Wri. (1)	C-05 Part-02 (15)
		**Varsity 'Kha' Offline Weekly Exam-03: (E+GK+B)				
05-Oct-24	Saturday	C-04	P-04 MCQ (20) + Wri. (1)	Medical Weekly Live Exam-04: (Bio <sub>4</sub> +C <sub>4</sub> +P <sub>4</sub> +GK+E) [05-11 Oct]	Medical W-04(100)	
				Varsity 'Kha' Weekly Live Exam-04: (E+GK+B) [05-11 Oct]	Varsity 'Kha' W-04 (60)	
				M-05 Part-01	M-05 Part-01 MCQ (15) + Wri. (1)	M-05 Part-01 (15)
06-Oct-24	Sunday	-	-	M-05 Part-02	M-05 Part-02 MCQ (15) + Wri. (1)	M-05 Part-02 (15)
07-Oct-24	Monday	C-05	C-04 MCQ (20) + Wri. (1)	*Bio-05 Part-01+02	*Bio-05 MCQ(30) + Wri. (2)	*Bio-05 (30)
08-Oct-24	Tuesday	<b>Engg. Offline Weekly Exam-04: (P<sub>4</sub>+C<sub>4</sub>+M<sub>4</sub>)</b>		P-06 Part-01	P-06 Part-01 MCQ (15) + Wri. (1)	P-06 Part-01 (15)
09-Oct-24	Wednesday	M-05	C-05 MCQ (20) + Wri. (1)	P-06 Part-02	P-06 Part-02 MCQ (15) + Wri. (1)	P-06 Part-02 (15)
10-Oct-24	Thursday	-	-	<b>Engg. Weekly Live Exam-05: (P<sub>5</sub>+C<sub>5</sub>+M<sub>5</sub>) [10-16 Oct]</b>		Engg. W-5 (50)
				Varsity 'KA' Weekly Live Exam -05: (P <sub>5</sub> +C <sub>5</sub> +M <sub>5</sub> +Bio <sub>5</sub> /Ba/E) [10-16 Oct]		Varsity 'KA' W-05 (60)
				C-06 Part-01	C-06 Part-01 MCQ (15) + Wri. (1)	C-06 Part-01 (15)
11-Oct-24	Friday	*Bio-05/Arc-05	*Medical Offline Weekly Exam-04: (Bio <sub>4</sub> +C <sub>4</sub> +P <sub>4</sub> +GK+E)	C-06 Part-02	C-06 Part-02 MCQ (15) + Wri. (1)	C-06 Part-02 (15)
		**Varsity 'Kha' Offline Weekly Exam-04: (E+GK+B)				

**Note: \*Marked class-exams are for students of 'Biology' course.**

**\*\* Marked Exams are for students of "Varsity 'KHA' Special course.**

<ul style="list-style-type: none"> <li>➤ <b>Engineering</b> Offline Daily Exam 15 min. [MCQ (20×1=20); Written (1×10=10)]</li> <li>➤ <b>Engineering</b> Offline Weekly Exam 1 hour 25 min. [MCQ (50×1=50); Written (18×10=180)]</li> <li>➤ <b>Medical</b> Offline Weekly Exam 45 min. [MCQ (100×1=100)]</li> <li>➤ <b>Varsity 'KHA'</b> Offline Weekly Exam 1 hour 30 min. [MCQ (60×1=60); Written (40)]</li> <li>➤ <b>To enjoy the online services, just join-:</b> online.udvash-unmesh.com</li> </ul>	<ul style="list-style-type: none"> <li>➤ <b>Engineering</b> Daily Live Exam 14 min. [MCQ (9 Min.)+ Written (5Min.)]</li> <li>➤ <b>Engineering</b> Weekly Live Exam 1 hour 45 min. [MCQ (50×1=50); Written (18×10=180)]</li> <li>➤ <b>Varsity 'KA'</b> Weekly Live Exam 1 hour 45 min. [MCQ (60×1=60); Written (40)]</li> <li>➤ <b>Varsity 'KHA'</b> Weekly Live Exam 1 hour 30 min. [MCQ (60×1=60); Written (40)]</li> <li>➤ <b>Medical</b> Weekly Live Exam 45 min. [MCQ (100×1=100)]</li> <li>➤ <b>Engineering Facebook Private Group:</b> <a href="https://cutt.ly/EAP24">https://cutt.ly/EAP24</a></li> </ul>
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### Engineering Syllabus-2024 (Step-1)

Offline Class	Marathon Live	Physics
P-01	Part-01	1st Paper Chapter-02: Vector [Resultant of vectors: Parallelogram law, Resolution of vectors, Determination of resultant using theorem on resolved parts, Relative velocity]
	Part-02	1st Paper Chapter-02: Vector [Related to river-boat : Vector dot product and its applications, Vector cross product and its applications, Vector calculus (Gradient, Curl & Divergence)]
P-02	Part-01	1st Paper Chapter-04: Newtonian Mechanics [Newton's Laws, Friction, Lift, Acceleration of connected bodies]
	Part-02	1st Paper Chapter-04: Newtonian Mechanics [Impulse of force and Impulsive force, Momentum determination, Formula of conservation of momentum, Motion of a rocket, Determination of velocity and Kinetic energy, Co-ordinate of center of mass, Laws of angular motion]
P-03	Part-01	1st Paper Chapter-04: Newtonian Mechanics [Moment of Inertia, Couple and Torque, Angular Momentum, Angular Kinetic Energy]
	Part-02	1st Paper Chapter-04: Newtonian Mechanics [Centripetal Acceleration and Force, Banking at road, Circular Motion at vertical plane] 1st Paper Chapter-01: Physical World and Measurement [Error in measurement, Slide calipers and spherometer]
P-04	Part-01	1st Paper Chapter-05: Work, Energy and Power [Quantities of work (Work done by constant force, Work done against gravity, Work done by displacement of center of mass, Work done by variable force, Spring)]
	Part-02	1st Paper Chapter-05: Work, Energy and Power [Potential energy, Kinetic energy, Work-Energy theorem, Power and Efficiency, related to emptying/filling water tank]
P-05	Part-01	1st Paper Chapter-06: Gravitation and Gravity [Newton's Law of Gravitation, Gravitational field intensity and potential, Variation of acceleration due to gravity or 'g']
	Part-02	1st Paper Chapter-06: Gravitation and Gravity [Gravitational potential energy, Escape velocity, Artificial satellites with expression of energy, Kepler's Laws]

P-06	Part-01	1st Paper Chapter-07: Structural Properties of Matter [Stress and Strain, Young's Modulus of Elasticity, Rigidity Modulus, Volume or Bulk Modulus, expression of stored energy, Poisson's Ratio]
	Part-02	1st Paper Chapter-08: Periodic Motion [Simple Harmonic Motion (Differential equation, Solution of the differential equation), Quantities relating to velocity and acceleration, Graph, Spring, Simple pendulum, Determination of height of a hill, Quantities relating to power]

Offline Class	Marathon Live	Chemistry
C-01	Part-01	1st Paper Chapter-03: Periodic properties of elements and chemical bonds (up to periodic property) [Periodic table, characteristics of block elements, acid-base property of oxides, periodic property]
	Part-02	1st Paper Chapter-03: Periodic properties of elements and chemical bonds (up to periodic property) [d-block element and hybridization of complex compounds]
C-02	Part-01	1st Paper Chapter-03: Periodic properties of elements and chemical bonds (chemical bonds) [Ionic bond, covalent bond and hybridization]
	Part-02	1st Paper Chapter-03: Periodic properties of elements and chemical bonds (chemical bonds) [Polarity, polarization, hydrogen bond, Vander Waals bond]
C-03	Part-01	1st Paper Chapter-02: Qualitative chemistry [Atomic model, principle of electronic configuration, quantum number, spectrum]
	Part-02	1st Paper Chapter-02: Qualitative chemistry [Solubility, solubility product and ion detection]
C-04	Part-01	2nd Paper Chapter-03: Stoichiometric chemistry [Mole, chemical reaction, stoichiometric formula, concentration]
	Part-02	2nd Paper Chapter-03: Stoichiometric chemistry [Oxidation-reduction, acid-base titration]
C-05	Part-01	2nd paper Chapter-01: Environmental chemistry [Gas laws, ideal and real gas]
	Part-02	2nd Paper Chapter-01: Environmental chemistry [Diffusion law, Dalton's law of partial pressure, kinetic theory of gas, criteria for purity of water]
C-06	Part-01	1st Paper Chapter-04: [Chemical change Green chemistry, chemical equilibrium, $K_p$ , $K_c$ ]
	Part-02	1st Paper Chapter-04: [Chemical change Acid-base equilibrium]

Offline Class	Marathon Live	Math
M-01	Part-01	1st Paper Chapter-03: Straight Line [From Coordinate System to the equations of straight lines in different cases]
	Part-02	1st Paper Chapter-03: Straight Line [From equation of straight line (all problems) to image of straight lines]
M-02	Part-01	1st Paper Chapter-04: Circle [Conditions for a Circle, equation of a circle in various cases, polar equation of a circle, circle that touch/intersection the axes, equation of a circle that passes through the intersecting points of a straight line and a circle/two circles]
	Part-02	1st Paper Chapter-04: Circle [Locus related to circles, image of circle with respect to straight lines, tangent-secant of circles, relative position of two circles, common tangent]
M-03	Part-01	2nd Paper Chapter-06: Conics [Identification of conics & parabola (Up to Tangent/Secant of parabola)]
	Part-02	2nd Paper Chapter-06: Conics [Tangent/secant of parabola, ellipse]
M-04	Part-01	2nd Paper Chapter-06: Conics (Hyperbola, tangent of ellipse and hyperbola)
	Part-02	1st Paper Chapter-01: Matrix and Determinant
M-05	Part-01	2nd Paper Chapter-03: Complex Numbers [Exponents of i, series of i, rotation multiplying by i, introduction of complex numbers, Expressing in A+iB form, modulus & argument, polar form, multiplication-division, power of a complex number, complex conjugate]
	Part-02	2nd Paper Chapter-03: Complex Numbers [Root, proof under conditions, determination of value, locus, factorization]

### Biology Syllabus-2024 (Step-1)

Offline Class	Marathon Live	Biology
Bio-01	Part-01	2nd Paper Chapter-04: Human Physiology : Blood and Circulation [Upto Blood Vessels]
	Part-02	2nd Paper Chapter-04: Human Physiology : Blood and Circulation [Heart to End]
Bio-02	Part-01	1st Paper Chapter-04 : Microorganisms [Viruses]
	Part-02	1st Paper Chapter-04 : Microorganisms [Bacteria, Malaria]
Bio-03	Part-01	2nd Paper Chapter-03 : Human Physiology : Digestion and Absorption [Upto Intestinal Glands]
	Part-02	2nd Paper Chapter-03 : Human Physiology : Digestion and Absorption [From Role of Nervous System to End]
Bio-04	Part-01	1st Paper Chapter-01 : Cell and its Structure [Upto Cell Vacuole]
	Part-02	1st Paper Chapter-01 : Cell and Its Structure [From Nucleus to End]
Bio-05	Part-01	2nd Paper Chapter-01 : Animal Diversity and Classification
	Part-02	2nd Paper Chapter-02 : Animal Identity (Grasshopper)

### Architecture Syllabus-2024 (Step-1)

Offline & Marathon Live Class	Architecture
Arc-01	Introduction [Introductory Class brief and motivation]
Arc-02	Elements of Design and techniques [Dot, Line, Planes, Shapes, Hatching, Shading]
Arc-03	Composition Basics and 2D Composition [Balance, Rhythm, Progression, Focus, Judging a composition with Axis, Motion, Focus, Depth, Interlocking Solid void and Dynamism]
Arc-04	3D Composition [Enhanced work on Shade- Shadow. Composition with 3D basic shapes-Cube, Sphere, Hemisphere, Pyramid and Prism. Composition with real objects]
Arc-05	Visual perception Basics [Basic of Visual and Spatial Intelligence]

### Bangla & English Syllabus for Varsity 'KA' Weekly Exam (Step-1)

Week	Lecture	Syllabus
Week-01	Bangla	বাংলা ১ম পত্র- অপরিচিতা। বাংলা ২য় পত্র- বাংলা সাহিত্যের ইতিহাস, ভাষা, বাংলা ভাষার উৎপত্তি ও বিকাশ, সাধু ও চলিত ভাষা, আঞ্চলিক ও প্রমিত রীতি, ব্যাকরণ ও এর আলোচ্য বিষয়।
	English	Parts of Speech Identification and Transformation, Noun, Number.
Week-02	Bangla	বাংলা ১ম পত্র- সোনার তরী। বাংলা ২য় পত্র- ধ্বনি ও বর্ণ, বর্ণের উচ্চারণ, যতিচিহ্ন, এক কথায় প্রকাশ।
	English	Gender, Pronoun, Preposition & Conjunction, Synonym & Antonym (A-D), Appropriate Preposition (A,B).
Week-03	Bangla	বাংলা ১ম পত্র- প্রতিদান, বিদ্রোহী। বাংলা ২য় পত্র- উচ্চারণের নিয়ম, বচন, বানান ও বানান শুদ্ধি।

	English	Verb types, Gerund-Participle-Verbal Noun, Modal Auxiliaries.
Week-04	Bangla	বাংলা ১ম পত্র- আমার পথ, তাহায়েই পড়ে মনে। বাংলা ২য় পত্র- গ-ত্ব ও ষ-ত্ব বিধান, বাগ্‌ধারা ও বাগর্থ, প্রবাদ-প্রবচন।
	English	Subject-Verb Agreement, Right Form of Verbs, Spelling, Synonym & Antonym (E-H), Appropriate Preposition (C-F)
Week-05	Bangla	বাংলা ১ম পত্র- বিলাসী, মাসি-পিসি। বাংলা ২য় পত্র- সন্ধি, শব্দদ্বিত্ব, বাক্য প্রকরণ।
	English	Subjunctive and Causative, Conditional, Affirmative & Negative Agreement

### GK & English Syllabus for Medical Weekly Exam (Step-1)

Week	Lecture	Syllabus
Week-01	GK	Introduction to Bangladesh, Geography, Area and Border of Bangladesh, Boundary, Enclave, National Affairs of Bangladesh, Geography, Hills and Mountains, Valley, Waterfalls, Lakes, Fountains, Beel, Haor and Baor, Geographical Surname, Soil, Agricultural Resources, Forest Resources of Bangladesh. [Ref: GKE QB, Page (01-09)]
	English	Noun & Its Classification, Noun & Determiners, Number, Gender, Pronoun & Its Classification, Uses of Pronoun, Synonym & Antonym (A-B). [Ref: GKE QB, Page (115-123)]
Week-02	GK	Fuel, Electricity and Mineral Resources, Fisheries and Livestock, Bay of Bengal, Sea Beach of Bangladesh and Islands, Rivers of Bangladesh, Water Sharing Treaty, Irrigation Project, Dams and Flood Control, Water Refinery of Bangladesh, Natural Disaster of Bangladesh. [Ref: GKE QB, Page (10-17)]
	English	Adjective & Its Classification, Degree of Comparison, Adverb & Its Classification, Inversion, Preposition & Its Classification, Uses of Some Prepositions, Spelling, Appropriate preposition (A-B). [Ref: GKE QB, Page (124-134)]
Week-03	GK	History and Townships of Ancient Bengal, Different Regimes in Ancient Bengal, Muslim Rule in the Subcontinent, Mughal Empire in the Subcontinent, Muslim Rule in Bengal, Arrival of Europeans and British Rule, Various Reform Movements and Awakening of Bengal, Political Rights Movement, British-India. [Ref: GKE QB, Page (18-29)]
	English	Conjunction, Linkers & Interjection, Same Word but Different Parts of Speech, Transformation of Parts of Speech, Identification of Parts of Speech, Synonym & Antonym (C-D). [Ref: GKE QB, Page (135-144)]
Week-04	GK	Partition of the Country and the Establishment of Awami Muslim League, Language Movement, Various Stages of the Independence Movement, Blazing March, Mujibnagar Government, War Strategy of the Liberation War, Genocide and Intellectual Killings, Surrender of the Pakistani Forces, The Role of International Public Opinion and Mass Media in the Liberation War, [Ref: GKE QB, Page (30-40)]
	English	Verb & Its Classification, Gerund, Participle & Verbal Noun Affirmative & Negative Agreement, Conjugation of Verbs, Appropriate preposition (C-D), Synonym & Antonym (E-F). [Ref: GKE QB, Page (145-152)]

### Bangla, English & GK Weekly Syllabus for Varsity 'Kha' Special Course (Step-1)

Week	Lecture	Syllabus
Week-01	Bangla	বাংলা ১ম পত্র: গদ্য: অপরিচিতা; কবিতা: সোনার তরী। লিখিত প্রস্তুতি: পাঠের মূলভাব লিখন, উদ্ধৃত সংলাপ ও উদ্ধৃতি ব্যাখ্যা, লেখক পরিচিতি। বাংলা ২য় পত্র: বাংলা সাহিত্যের ইতিহাস, ভাষা, বাংলা ভাষার উৎপত্তি ও বিকাশ, সাধু ও চলিত ভাষা, আঞ্চলিক ও প্রমিত রীতি, ব্যাকরণ ও এর আলোচ্য বিষয়, এক কথায় প্রকাশ; (পৃ.৪৭৩-পৃ.৪৭৪)। লিখিত প্রস্তুতি: ব্যাকরণ-সম্পর্কিত বিষয়াবলি (সংজ্ঞার্থ ও দৃষ্টান্ত)।
	English	Question Analysis (MCQ + Written), Basic Sentence Structure, Subject, Verb (Finite vs Non-finite), Object, Complement, Adjunct, Embedded Question Unit-1 (Lesson-01), Appropriate Preposition (A-B), Idioms & Phrases (A-B), Vocabulary (A-B), Spelling (A-B), Group Verbs (A-B)
	GK (Bangladesh Affairs)	Origin And Development Of The Bengali Nation, Settlements Of Ancient Bengal, Empires Of Ancient India, Muslim Rule In The Subcontinent, Muslim Rule In Bengal And Mughal Rule In The Subcontinent, Arrival Of Europeans In The Subcontinent, British Rule In The Subcontinent, Rebellions And Reform Movements In The Subcontinent, British India.
Week-02	Bangla	বাংলা ১ম পত্র: গদ্য: বায়ান্নের দিনগুলো; কবিতা: প্রতিদান। লিখিত প্রস্তুতি: পাঠের মূলভাব লিখন, উদ্ধৃত সংলাপ ও উদ্ধৃতি ব্যাখ্যা, লেখক পরিচিতি। বাংলা ২য় পত্র: ধ্বনি ও বর্ণ, বর্ণের উচ্চারণ, অভিধান, যতিচিহ্ন, এক কথায় প্রকাশ; (পৃ.৪৭৫-পৃ.৪৭৬)। লিখিত প্রস্তুতি: ব্যাকরণ-সম্পর্কিত বিষয়াবলি (সংজ্ঞার্থ ও দৃষ্টান্ত)।
	English	Noun & Determiner, Article, Number, Gender, Unit-1 (Lesson-02) Unit-1 (Lesson-03), Appropriate Preposition (C-D), Idioms & Phrases (C-D), Vocabulary (C-D), Spelling (C-D), Group Verbs (C-D)
	GK (International Affairs)	Introduction To The Earth, World Civilization; Languages, Nations, And Tribes, Asia, Europe, Africa, North America, South America, Oceania And Antarctica ; Currencies Around The World; Capitals, Legislatures, Cities, And Geographical Nicknames.
Week-03	Bangla	বাংলা ১ম পত্র: গদ্য: আমার পথ। লিখিত প্রস্তুতি: পাঠের মূলভাব লিখন, উদ্ধৃতি ব্যাখ্যা, লেখক পরিচিতি। বাংলা ২য় পত্র: উচ্চারণের নিয়ম, বচন, নির্দেশক, বাগর্থ। লিখিত প্রস্তুতি: ব্যাকরণ-সম্পর্কিত বিষয়াবলি (সংজ্ঞার্থ ও দৃষ্টান্ত)।
	English	Pronoun & Antecedent, Parallelism, Punctuation, Unit- 2 (Lesson: 1) Unit- 2 (Lesson: 2, 3), Appropriate Preposition (E-G), Idioms & Phrases (E-G), Vocabulary (E-G), Spelling (E-G), Group Verbs (E-G)
	GK (Bangladesh Affairs)	Birth Of The State Of Pakistan, Language Movement, 1954 United Front Election, Stages Of The Independence Movement (1955 Mari Agreement, Pakistan's First Constitution-1956, Kagmari Conference-1957, Martial Law Declaration-1958, Basic Democracy-1959, Education Movement-1962, Presidential Election-1965, Six-Point Movement, Historic Agartala Conspiracy Case, 1969 Mass Uprising, 1970 General Election.
Week-04	Bangla	বাংলা ১ম পত্র: কবিতা: বিদ্রোহী। লিখিত প্রস্তুতি: কবিতার মূলভাব লিখন, কবিতার উদ্ধৃতি ব্যাখ্যা, লেখক পরিচিতি। বাংলা ২য় পত্র: বানান ও বানান শুদ্ধি, গ-ত্ব ও ষ-ত্ব বিধান, বাগ্‌ধারা ও প্রবাদ-প্রবচন; (পৃ.৪৬৪-পৃ.৪৬৬)। লিখিত প্রস্তুতি: ব্যাকরণ-সম্পর্কিত বিষয়াবলি (সংজ্ঞার্থ ও দৃষ্টান্ত)।
	English	Adjective & Comparison of Degrees, Conditionals, Analogy, Unit- 2 (Lesson: 4); Unit- 3 (Lesson: 1, 3), Appropriate Preposition (H-I), Idioms & Phrases (H-I), Vocabulary (H-I), Spelling (H-I), Group Verbs (H-I)
	GK (International Affairs)	Important Seas, Oceans, Gulfs, Islands, Peninsulas, And Seaports Of The World, Important Rivers, Lakes, Waterfalls, Straits, Canals, Channels, And Capes Of The World, Renowned Mountains And Deserts, Boundaries Of The World, Famous Squares, Triangles, And Circles; Settlements, Controlled Areas, And Special Regions Introduction.

## Engineering + Biology Admission Program-2024

Offline Orientation Class: 8 September	Online Orientation Class: 31 August
Offline Class Start: 10 September	Marathon Live class Start: 3 September
Step-1: Class & Exam Routine (3 September-11 October)	

Date	Day	Offline Class (Self Batch Time)	Offline Daily Exam (Self Batch Time)	Marathon Live Class (EV-3:00pm & BV-7:30pm)	Daily Live Exam (Same Day 11:00pm to Next Day 11:00pm)	Practice Exam (MCQ) (Same Day 11:00pm to Program End)
31-Aug-24	Saturday	-	-	Online Orientation Class (7:00pm)		
01-Sep-24	Sunday	-	-	-	-	-
02-Sep-24	Monday	-	-	-	-	-
03-Sep-24	Tuesday	-	-	P-01 Part-01	P-01 Part-01 MCQ (15) + Wri. (1)	P-01 Part-01 (15)
04-Sep-24	Wednesday	-	-	P-01 Part-02	P-01 Part-02 MCQ (15) + Wri. (1)	P-01 Part-02 (15)
05-Sep-24	Thursday	-	-	C-01 Part-01	C-01 Part-01 MCQ (15) + Wri. (1)	C-01 Part-01 (15)
06-Sep-24	Friday	-	-	C-01 Part-02	C-01 Part-02 MCQ (15) + Wri. (1)	C-01 Part-02 (15)
07-Sep-24	Saturday	-	-	M-01 Part- 01	M-01 Part-01 MCQ (15) + Wri. (1)	M-01 Part-01 (15)
08-Sep-24	Sunday	Offline Orientation Class (Self Batch Time)		M-01 Part-02	M-01 Part-02 MCQ (15) + Wri. (1)	M-01 Part-02 (15)
09-Sep-24	Monday	-	-	*Bio-01 Part-01+02	*Bio-01 MCQ (30) + Wri. (2)	*Bio-01 (30)
10-Sep-24	Tuesday	M-01	Introductory Exam MCQ (25)	P-02 Part-01	P-02 Part-01 MCQ (15) + Wri. (1)	P-02 Part-01 (15)
11-Sep-24	Wednesday	-	-	P-02 Part-02	P-02 Part-02 MCQ (15) + Wri. (1)	P-02 Part-02 (15)
12-Sep-24	Thursday	P-01	M-01 MCQ (20) + Wri. (1)	Engg. Weekly Live Exam-01: (P <sub>1</sub> +C <sub>1</sub> +M <sub>1</sub> ) [12-18 Sep]		Engg. W-01 (50)
				Varsity 'KA' Weekly Live Exam-01: (P <sub>1</sub> +C <sub>1</sub> +M <sub>1</sub> +Bio <sub>1</sub> /Ba/E) [12-18 Sep]		Varsity 'KA' W-01 (60)
				C-02 Part-01	C-02 Part-01 MCQ (15) + Wri. (1)	C-02 Part-01 (15)
13-Sep-24	Friday	*Bio-01/Arc-01	Introductory Exam MCQ (25)	C-02 Part-02	C-02 Part-02 MCQ (15) + Wri. (1)	C-02 Part-02 (15)
14-Sep-24	Saturday	-	-	Medical Weekly Live Exam-01: (Bio <sub>1</sub> +C <sub>1</sub> +P <sub>1</sub> +GK+E) [14-20 Sep]		Medical W-01(100)
				Varsity 'Kha' Weekly Live Exam-01: (E+GK+B) [14-20 Sep]		Varsity 'Kha' W-01 (60)
				M-02 Part- 01	M-02 Part-01 MCQ (15) + Wri. (1)	M-02 Part-01 (15)
15-Sep-24	Sunday	C-01	P-01 MCQ (20) + Wri. (1)	M-02 Part-02	M-02 Part-02 MCQ (15) + Wri. (1)	M-02 Part-02 (15)
16-Sep-24	Monday	-	-	*Bio-02 Part-01+02	*Bio-02 MCQ (30) + Wri. (2)	*Bio-02 (30)
17-Sep-24	Tuesday	C-02	C-01 MCQ (20) + Wri. (1)	P-03 Part-01	P-03 Part-01 MCQ (15) + Wri. (1)	P-03 Part-01 (15)
18-Sep-24	Wednesday	Engg. Offline Weekly Exam-01: (P <sub>1</sub> +C <sub>1</sub> +M <sub>1</sub> )		P-03 Part-02	P-03 Part-02 MCQ (15) + Wri. (1)	P-03 Part-02 (15)
19-Sep-24	Thursday	M-02	C-02 MCQ (20) + Wri. (1)	Engg. Weekly Live Exam-02: (P <sub>2</sub> +C <sub>2</sub> +M <sub>2</sub> ) [19-25 Sep]		Engg. W-02 (50)
				Varsity 'KA' Weekly Live Exam-02: (P <sub>2</sub> +C <sub>2</sub> +M <sub>2</sub> +Bio <sub>2</sub> /Ba/E) [19-25 Sep]		Varsity 'KA' W-02 (60)
				C-03 Part-01	C-03 Part-01 MCQ (15) + Wri. (1)	C-03 Part-01 (15)
20-Sep-24	Friday	*Bio-02/Arc-02	*Medical Offline Weekly Exam-01: (Bio <sub>1</sub> +C <sub>1</sub> +P <sub>1</sub> +GK+E)	C-03 Part-02	C-03 Part-02 MCQ (15) + Wri. (1)	C-03 Part-02 (15)
		**Varsity 'Kha' Offline Weekly Exam-01: (E+GK+B)				
21-Sep-24	Saturday	-	-	Medical Weekly Live Exam-02: (Bio <sub>2</sub> +C <sub>2</sub> +P <sub>2</sub> +GK+E) [21-27 Sep]		Medical W-02(100)
				Varsity 'Kha' Weekly Live Exam-02: (E <sub>2</sub> +GK+B) [21-27 Sep]		Varsity 'Kha' W-02 (60)
				M-03 Part- 01	M-03 Part-01 MCQ (15) + Wri. (1)	M-03 Part-01 (15)
22-Sep-24	Sunday	P-02	M-02 MCQ (20) + Wri. (1)	M-03 Part-02	M-03 Part-02 MCQ (15) + Wri. (1)	M-03 Part-02 (15)
23-Sep-24	Monday	-	-	*Bio-03 Part-01+02	*Bio-03 MCQ (30) + Wri. (2)	*Bio-03 (30)
24-Sep-24	Tuesday	P-03	P-02 MCQ (20) + Wri. (1)	P-04 Part-01	P-04 Part-01 MCQ (15) + Wri. (1)	P-04 Part-01 (15)
25-Sep-24	Wednesday	Engg. Offline Weekly Exam-02: (P <sub>2</sub> +C <sub>2</sub> +M <sub>2</sub> )		P-04 Part-02	P-04 Part-02 MCQ (15) + Wri. (1)	P-04 Part-02 (15)
26-Sep-24	Thursday	C-03	P-03 MCQ (20) + Wri. (1)	Engg. Weekly Live Exam-03: (P <sub>3</sub> +C <sub>3</sub> +M <sub>3</sub> ) [26 Sep-02 Oct]		Engg. W-03 (50)
				Varsity 'KA' Weekly Live Exam-03: (P <sub>3</sub> +C <sub>3</sub> +M <sub>3</sub> +Bio <sub>3</sub> /Ba/E) [26 Sep-02 Oct]		Varsity 'KA' W-03 (60)
				C-04 Part-01	C-04 Part-01 MCQ (15) + Wri. (1)	C-04 Part-01 (15)
27-Sep-24	Friday	*Bio-03/Arc-03	*Medical Offline Weekly Exam-02: (Bio <sub>2</sub> +C <sub>2</sub> +P <sub>2</sub> +GK+E)	C-04 Part-02	C-04 Part-02 MCQ (15) + Wri. (1)	C-04 Part-02 (15)
		**Varsity 'Kha' Offline Weekly Exam-02: (E+GK+B)				

28-Sep-24	Saturday	-	-	Medical Weekly Live Exam-03: (Bio <sub>3</sub> +C <sub>3</sub> +P <sub>3</sub> +GK+E) [28 Sep-04 Oct]	Medical W-03(100)	
				Varsity 'Kha' Weekly Live Exam-03: (E+GK+B) [28 Sep-04 Oct]	Varsity 'Kha' W-03 (60)	
				M-04 Part-01	M-04 Part-01 MCQ (15) + Wri. (1)	M-04 Part-01 (15)
29-Sep-24	Sunday	M-03	C-03 MCQ (20) + Wri. (1)	M-04 Part-02	M-04 Part-02 MCQ (15) + Wri. (1)	M-04 Part-02 (15)
30-Sep-24	Monday	-	-	*Bio-04 Part-01+02	*Bio-04 MCQ (30) + Wri. (2)	*Bio-04 (30)
01-Oct-24	Tuesday	M-04	M-03 MCQ (20) + Wri. (1)	P-05 Part-01	P-05 Part-01 MCQ (15) + Wri. (1)	P-05 Part-01 (15)
02-Oct-24	Wednesday	<b>Engg. Offline Weekly Exam-03: (P<sub>3</sub>+C<sub>3</sub>+M<sub>3</sub>)</b>		P-05 Part-02	P-05 Part-02 MCQ (15) + Wri. (1)	P-05 Part-02 (15)
03-Oct-24	Thursday	P-04	M-04 MCQ (20) + Wri. (1)	<b>Engg. Weekly Live Exam-04: (P<sub>4</sub>+C<sub>4</sub>+M<sub>4</sub>) [03-09 Oct]</b>	Engg. W-04 (50)	
				Varsity 'KA' Weekly Live Exam-04: (P <sub>4</sub> +C <sub>4</sub> +M <sub>4</sub> +Bio <sub>4</sub> /Ba/E) [03-09 Oct]	Varsity 'KA' W-04 (60)	
				C-05 Part-01	C-05 Part-01 MCQ (15) + Wri. (1)	C-05 Part-01 (15)
04-Oct-24	Friday	*Bio-04/Arc-04	*Medical Offline Weekly Exam-03: (Bio <sub>3</sub> +C <sub>3</sub> +P <sub>3</sub> +GK+E)	C-05 Part-02	C-05 Part-02 MCQ (15) + Wri. (1)	C-05 Part-02 (15)
		**Varsity 'Kha' Offline Weekly Exam-03: (E+GK+B)				
05-Oct-24	Saturday	-	-	Medical Weekly Live Exam-04: (Bio <sub>4</sub> +C <sub>4</sub> +P <sub>4</sub> +GK+E) [05-11 Oct]	Medical W-04(100)	
				Varsity 'Kha' Weekly Live Exam-04: (E <sub>4</sub> +GK+B) [05-11 Oct]	Varsity 'Kha' W-04 (60)	
				M-05 Part-01	M-05 Part-01 MCQ (15) + Wri. (1)	M-05 Part-01 (15)
06-Oct-24	Sunday	C-04	P-04 MCQ (20) + Wri. (1)	M-05 Part-02	M-05 Part-02 MCQ (15) + Wri. (1)	M-05 Part-02 (15)
07-Oct-24	Monday	-	-	*Bio-05 Part-01+02	*Bio-05 MCQ (30) + Wri. (2)	*Bio-05 (30)
08-Oct-24	Tuesday	C-05	C-04 MCQ (20) + Wri. (1)	P-06 Part-01	P-06 Part-01 MCQ (15) + Wri. (1)	P-06 Part-01 (15)
09-Oct-24	Wednesday	<b>Engg. Offline Weekly Exam-04: (P<sub>4</sub>+C<sub>4</sub>+M<sub>4</sub>)</b>		P-06 Part-02	P-06 Part-02 MCQ (15) + Wri. (1)	P-06 Part-02 (15)
10-Oct-24	Thursday	M-05	C-05 MCQ (20) + Wri. (1)	<b>Engg. Weekly Live Exam-05: (P<sub>5</sub>+C<sub>5</sub>+M<sub>5</sub>) [10-16 Oct]</b>	Engg. W-05 (50)	
				Varsity 'KA' Weekly Live Exam-05: (P <sub>5</sub> +C <sub>5</sub> +M <sub>5</sub> +Bio <sub>5</sub> /Ba/E) [10-16 Oct]	Varsity 'KA' W-05 (60)	
				C-06 Part-01	C-06 Part-01 MCQ (15) + Wri. (1)	C-06 Part-01 (15)
11-Oct-24	Friday	*Bio-05/Arc-05	*Medical Offline Weekly Exam-04: (Bio <sub>4</sub> +C <sub>4</sub> +P <sub>4</sub> +GK+E)	C-06 Part-02	C-06 Part-02 MCQ (15) + Wri. (1)	C-06 Part-02 (15)
		**Varsity 'Kha' Offline Weekly Exam-04: (E+GK+B)				

Note: \*চিহ্নিত ক্লাস-পরীক্ষাগুলো উল্লেখ 'Biology' কোর্সের শিক্ষার্থীদের জন্য।

\*\*চিহ্নিত পরীক্ষাগুলো "ভার্সিটি 'খ' স্পেশাল কোর্স" এর শিক্ষার্থীদের জন্য।

<ul style="list-style-type: none"> <li>➤ ইঞ্জিনিয়ারিং অফলাইন ডেইলি এক্সাম ১৫ মিনিট [MCQ (20×1=20); Written (1×10=10)]</li> <li>➤ ইঞ্জিনিয়ারিং অফলাইন উইকলি এক্সাম ১ ঘণ্টা ২৫ মিনিট [MCQ (50×1=50); Written (18×10=180)]</li> <li>➤ মেডিকেল অফলাইন উইকলি এক্সাম ৪৫ মিনিট [MCQ (100×1=100)]</li> <li>➤ ভার্সিটি 'খ' অফলাইন উইকলি এক্সাম ১ ঘণ্টা ৩০ মিনিট [MCQ (60×1=60); Written (40)]</li> <li>➤ অনলাইন সেবাসমূহ উপভোগ করতে জয়েন করুন-online.udvash-unmesh.com</li> </ul>	<ul style="list-style-type: none"> <li>➤ ইঞ্জিনিয়ারিং ডেইলি লাইভ এক্সাম ১৪ মিনিট [MCQ (9 Min.)+ Written (5Min.)]</li> <li>➤ ইঞ্জিনিয়ারিং উইকলি লাইভ এক্সাম ১ ঘণ্টা ৪৫ মিনিট [MCQ (50×1=50); Written (18×10=180)]</li> <li>➤ ভার্সিটি 'ক' উইকলি লাইভ এক্সাম ১ ঘণ্টা ৪৫ মিনিট [MCQ (60×1=60); Written (40)]</li> <li>➤ ভার্সিটি 'খ' উইকলি লাইভ এক্সাম ১ ঘণ্টা ৩০ মিনিট [MCQ (60×1=60); Written (40)]</li> <li>➤ মেডিকেল উইকলি লাইভ এক্সাম ৪৫ মিনিট [MCQ (100×1=100)]</li> <li>➤ ইঞ্জিনিয়ারিং ফেসবুক প্রাইভেট গ্রুপ: <a href="https://cutt.ly/EAP24">https://cutt.ly/EAP24</a></li> </ul>
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## Engineering Syllabus-2024 (Step-1)

Offline Class	Marathon Live	Physics
P-01	Part-01	1st Paper Chapter-02: Vector [Resultant of vectors: Parallelogram law, Resolution of vectors, Determination of resultant using theorem on resolved parts, Relative velocity]
	Part-02	1st Paper Chapter-02: Vector [Related to river-boat : Vector dot product and its applications, Vector cross product and its applications, Vector calculus (Gradient, Curl & Divergence)]
P-02	Part-01	1st Paper Chapter-04: Newtonian Mechanics [Newton's Laws, Friction, Lift, Acceleration of connected bodies]
	Part-02	1st Paper Chapter-04: Newtonian Mechanics [Impulse of force and Impulsive force, Momentum determination, Formula of conservation of momentum, Motion of a rocket, Determination of velocity and Kinetic energy, Co-ordinate of center of mass, Laws of angular motion]
P-03	Part-01	1st Paper Chapter-04: Newtonian Mechanics [Moment of Inertia, Couple and Torque, Angular Momentum, Angular Kinetic Energy]
	Part-02	1st Paper Chapter-04: Newtonian Mechanics [Centripetal Acceleration and Force, Banking at road, Circular Motion at vertical plane] 1st Paper Chapter-01: Physical World and Measurement [Error in measurement, Slide calipers and spherometer]
P-04	Part-01	1st Paper Chapter-05: Work, Energy and Power [Quantities of work (Work done by constant force, Work done against gravity, Work done by displacement of center of mass, Work done by variable force, Spring)]
	Part-02	1st Paper Chapter-05: Work, Energy and Power [Potential energy, Kinetic energy, Work-Energy theorem, Power and Efficiency, related to emptying/filling water tank]
P-05	Part-01	1st Paper Chapter-06: Gravitation and Gravity [Newton's Law of Gravitation, Gravitational field intensity and potential, Variation of acceleration due to gravity or 'g']

	Part-02	1st Paper Chapter-06: Gravitation and Gravity [Gravitational potential energy, Escape velocity, Artificial satellites with expression of energy, Kepler's Laws]
P-06	Part-01	1st Paper Chapter-07: Structural Properties of Matter [Stress and Strain, Young's Modulus of Elasticity, Rigidity Modulus, Volume or Bulk Modulus, expression of stored energy, Poisson's Ratio]
	Part-02	1st Paper Chapter-08: Periodic Motion [Simple Harmonic Motion (Differential equation, Solution of the differential equation), Quantities relating to velocity and acceleration, Graph, Spring, Simple pendulum, Determination of height of a hill, Quantities relating to power]

Offline Class	Marathon Live	Chemistry
C-01	Part-01	1st Paper Chapter-03: Periodic properties of elements and chemical bonds (up to periodic property) [Periodic table, characteristics of block elements, acid-base property of oxides, periodic property]
	Part-02	1st Paper Chapter-03: Periodic properties of elements and chemical bonds (up to periodic property) [d-block element and hybridization of complex compounds]
C-02	Part-01	1st Paper Chapter-03: Periodic properties of elements and chemical bonds (chemical bonds) [Ionic bond, covalent bond and hybridization]
	Part-02	1st Paper Chapter-03: Periodic properties of elements and chemical bonds (chemical bonds) [Polarity, polarization, hydrogen bond, Vander Waals bond]
C-03	Part-01	1st Paper Chapter-02: Qualitative chemistry [Atomic model, principle of electronic configuration, quantum number, spectrum]
	Part-02	1st Paper Chapter-02: Qualitative chemistry [Solubility, solubility product and ion detection]
C-04	Part-01	2nd Paper Chapter-03: Stoichiometric chemistry [Mole, chemical reaction, stoichiometric formula, concentration]
	Part-02	2nd Paper Chapter-03: Stoichiometric chemistry [Oxidation-reduction, acid-base titration]
C-05	Part-01	2nd paper Chapter-01: Environmental chemistry [Gas laws, ideal and real gas]
	Part-02	2nd Paper Chapter-01: Environmental chemistry [Diffusion law, Dalton's law of partial pressure, kinetic theory of gas, criteria for purity of water]
C-06	Part-01	1st Paper Chapter-04: [Chemical change Green chemistry, chemical equilibrium, $K_p$ , $K_c$ ]
	Part-02	1st Paper Chapter-04: [Chemical change Acid-base equilibrium]

Offline Class	Marathon Live	Math
M-01	Part-01	1st Paper Chapter-03: Straight Line [From Coordinate System to the equations of straight lines in different cases]
	Part-02	1st Paper Chapter-03: Straight Line [From equation of straight line (all problems) to image of straight lines]
M-02	Part-01	1st Paper Chapter-04: Circle [Conditions for a Circle, equation of a circle in various cases, polar equation of a circle, circle that touch/intersection the axes, equation of a circle that passes through the intersecting points of a straight line and a circle/two circles]
	Part-02	1st Paper Chapter-04: Circle [Locus related to circles, image of circle with respect to straight lines, tangent-secant of circles, relative position of two circles, common tangent]
M-03	Part-01	2nd Paper Chapter-06: Conics [Identification of conics & parabola (Up to Tangent/Secant of parabola)]
	Part-02	2nd Paper Chapter-06: Conics [Tangent/secant of parabola, ellipse]
M-04	Part-01	2nd Paper Chapter-06: Conics (Hyperbola, tangent of ellipse and hyperbola)
	Part-02	1st Paper Chapter-01: Matrix and Determinant
M-05	Part-01	2nd Paper Chapter-03: Complex Numbers [Exponents of i, series of i, rotation multiplying by i, introduction of complex numbers, Expressing in A+Bi form, modulus & argument, polar form, multiplication-division, power of a complex number, complex conjugate]
	Part-02	2nd Paper Chapter-03: Complex Numbers [Root, proof under conditions, determination of value, locus, factorization]

### Biology Syllabus-2024 (Step-1)

Offline Class	Marathon Live	Biology
Bio-01	Part-01	2nd Paper Chapter-04: Human Physiology : Blood and Circulation [Upto Blood Vessels]
	Part-02	2nd Paper Chapter-04: Human Physiology : Blood and Circulation [Heart to End]
Bio-02	Part-01	1st Paper Chapter-04 : Microorganisms [Viruses]
	Part-02	1st Paper Chapter-04 : Microorganisms [Bacteria, Malaria]
Bio-03	Part-01	2nd Paper Chapter-03 : Human Physiology : Digestion and Absorption [Upto Intestinal Glands]
	Part-02	2nd Paper Chapter-03 : Human Physiology : Digestion and Absorption [From Role of Nervous System to End]
Bio-04	Part-01	1st Paper Chapter-01 : Cell and its Structure [Upto Cell Vacuole]
	Part-02	1st Paper Chapter-01 : Cell and Its Structure [From Nucleus to End]
Bio-05	Part-01	2nd Paper Chapter-01 : Animal Diversity and Classification
	Part-02	2nd Paper Chapter-02 : Animal Identity (Grasshopper)

### Architecture Syllabus-2024 (Step-1)

Offline & Marathon Live Class	Architecture
Arc-01	Introduction [Introductory Class brief and motivation]
Arc-02	Elements of Design and techniques [Dot, Line, Planes, Shapes, Hatching, Shading]
Arc-03	Composition Basics and 2D Composition [Balance, Rhythm, Progression, Focus, Judging a composition with Axis, Motion, Focus, Depth, Interlocking Solid void and Dynamism]
Arc-04	3D Composition [Enhanced work on Shade- Shadow. Composition with 3D basic shapes-Cube, Sphere, Hemisphere, Pyramid and Prism. Composition with real objects]
Arc-05	Visual perception Basics [Basic of Visual and Spatial Intelligence]

### English & Bangla Syllabus for Varsity 'KA' Weekly Exam (Step-1)

Week	Lecture	Syllabus
Week-01	Bangla	বাংলা ১ম পত্র- অপরিচিতা। বাংলা ২য় পত্র- বাংলা সাহিত্যের ইতিহাস, ভাষা, বাংলা ভাষার উৎপত্তি ও বিকাশ, সাধু ও চলিত ভাষা, আঞ্চলিক ও প্রমিত রীতি, ব্যাকরণ ও এর আলোচ্য বিষয়।
	English	Parts of Speech Identification and Transformation, Noun, Number.
Week-02	Bangla	বাংলা ১ম পত্র- সোনার তরী। বাংলা ২য় পত্র- ধ্বনি ও বর্ণ, বর্ণের উচ্চারণ, যতিচিহ্ন, এক কথায় প্রকাশ।

	English	Gender, Pronoun, Preposition & Conjunction, Synonym & Antonym (A-D), Appropriate Preposition (A,B).
Week-03	Bangla	বাংলা ১ম পত্র- প্রতিদান, বিদ্রোহী। বাংলা ২য় পত্র- উচ্চারণের নিয়ম, বচন, বানান ও বানান শুদ্ধি।
	English	Verb types, Gerund-Participle-Verbal Noun, Modal Auxiliaries.
Week-04	Bangla	বাংলা ১ম পত্র- আমার পথ, তাহা-রেই পড়ে মনে। বাংলা ২য় পত্র- গ-তু ও ষ-তু বিধান, বাগধারা ও বাগর্থ, প্রবাদ-প্রবচন।
	English	Subject-Verb Agreement, Right Form of Verbs, Spelling, Synonym & Antonym (E-H), Appropriate Preposition (C-F)
Week-05	Bangla	বাংলা ১ম পত্র- বিলাসী, মাসি-পিসি। বাংলা ২য় পত্র- সন্ধি, শব্দদ্বিত্ব, বাক্য প্রকরণ।
	English	Subjunctive and Causative, Conditional, Affirmative & Negative Agreement

### English & GK Syllabus for Medical Weekly Exam (Step-1)

Week	Lecture	Syllabus
Week-01	GK	Introduction to Bangladesh, Geography, Area and Border of Bangladesh, Boundary, Enclave, National Affairs of Bangladesh, Geography, Hills and Mountains, Valley, Waterfalls, Lakes, Fountains, Beel, Haor and Baor, Geographical Surname, Soil, Agricultural Resources, Forest Resources of Bangladesh. [Ref: GKE QB, Page (01-09)]
	English	Noun & Its Classification, Noun & Determiners, Number, Gender, Pronoun & Its Classification, Uses of Pronoun, Synonym & Antonym (A-B). [Ref: GKE QB, Page (115-123)]
Week-02	GK	Fuel, Electricity and Mineral Resources, Fisheries and Livestock, Bay of Bengal, Sea Beach of Bangladesh and Islands, Rivers of Bangladesh, Water Sharing Treaty, Irrigation Project, Dams and Flood Control, Water Refinery of Bangladesh, Natural Disaster of Bangladesh. [Ref: GKE QB, Page (10-17)]
	English	Adjective & Its Classification, Degree of Comparison, Adverb & Its Classification, Inversion, Preposition & Its Classification, Uses of Some Prepositions, Spelling, Appropriate preposition (A-B). [Ref: GKE QB, Page (124-134)]
Week-03	GK	History and Townships of Ancient Bengal, Different Regimes in Ancient Bengal, Muslim Rule in the Subcontinent, Mughal Empire in the Subcontinent, Muslim Rule in Bengal, Arrival of Europeans and British Rule, Various Reform Movements and Awakening of Bengal, Political Rights Movement, British-India. [Ref: GKE QB, Page (18-29)]
	English	Conjunction, Linkers & Interjection, Same Word but Different Parts of Speech, Transformation of Parts of Speech, Identification of Parts of Speech, Synonym & Antonym (C-D). [Ref: GKE QB, Page (135-144)]
Week-04	GK	Partition of the Country and the Establishment of Awami Muslim League, Language Movement, Various Stages of the Independence Movement, Blazing March, Mujibnagar Government, War Strategy of the Liberation war, Genocide and Intellectual Killings, Surrender of the Pakistani Forces, The Role of International Public Opinion and Mass Media in the Liberation War, [Ref: GKE QB, Page (30-40)]
	English	Verb & Its Classification, Gerund, Participle & Verbal Noun Affirmative & Negative Agreement, Conjugation of Verbs, Appropriate preposition (C-D), Synonym & Antonym (E-F). [Ref: GKE QB, Page (145-152)]

### Bangla, English & GK Weekly Syllabus for Varsity 'Kha' Special Course (Step-1)

Week	Lecture	Syllabus
Week-01	Bangla	বাংলা ১ম পত্র: গদ্য: অপরিচিতা; কবিতা: সোনার তরী। লিখিত প্রস্তুতি: পাঠের মূলভাব লিখন, উদ্ধৃত সংলাপ ও উদ্ধৃতি ব্যাখ্যা, লেখক পরিচিতি। বাংলা ২য় পত্র: বাংলা সাহিত্যের ইতিহাস, ভাষা, বাংলা ভাষার উৎপত্তি ও বিকাশ, সাধু ও চলিত ভাষা, আঞ্চলিক ও প্রমিত রীতি, ব্যাকরণ ও এর আলোচ্য বিষয়, এক কথায় প্রকাশ; (পৃ.৪৭৩-পৃ.৪৭৪)। লিখিত প্রস্তুতি: ব্যাকরণ-সম্পর্কিত বিষয়াবলি (সংজ্ঞার্থ ও দৃষ্টান্ত)।
	English	Question Analysis (MCQ + Written), Basic Sentence Structure, Subject, Verb (Finite vs Non-finite), Object, Complement, Adjunct, Embedded Question Unit-1 (Lesson-01), Appropriate Preposition (A-B), Idioms & Phrases (A-B), Vocabulary (A-B), Spelling (A-B), Group Verbs (A-B)
	GK (Bangladesh Affairs)	Origin And Development Of The Bengali Nation, Settlements Of Ancient Bengal, Empires Of Ancient India, Muslim Rule In The Subcontinent, Muslim Rule In Bengal And Mughal Rule In The Subcontinent, Arrival Of Europeans In The Subcontinent, British Rule In The Subcontinent, Rebellions And Reform Movements In The Subcontinent, British India.
Week-02	Bangla	বাংলা ১ম পত্র: গদ্য: বায়ান্নের দিনগুলো; কবিতা: প্রতিদান। লিখিত প্রস্তুতি: পাঠের মূলভাব লিখন, উদ্ধৃত সংলাপ ও উদ্ধৃতি ব্যাখ্যা, লেখক পরিচিতি। বাংলা ২য় পত্র: ধ্বনি ও বর্ণ, বর্ণের উচ্চারণ, অভিধান, যতিচিহ্ন, এক কথায় প্রকাশ; (পৃ.৪৭৫-পৃ.৪৭৬)। লিখিত প্রস্তুতি: ব্যাকরণ-সম্পর্কিত বিষয়াবলি (সংজ্ঞার্থ ও দৃষ্টান্ত)।
	English	Noun & Determiner, Article, Number, Gender, Unit-1 (Lesson-02) Unit-1 (Lesson-03), Appropriate Preposition (C-D), Idioms & Phrases (C-D), Vocabulary (C-D), Spelling (C-D), Group Verbs (C-D)
	GK (International Affairs)	Introduction To The Earth, World Civilization; Languages, Nations, And Tribes, Asia, Europe, Africa, North America, South America, Oceania And Antarctica; Currencies Around The World; Capitals, Legislatures, Cities, And Geographical Nicknames.
Week-03	Bangla	বাংলা ১ম পত্র: গদ্য: আমার পথ। লিখিত প্রস্তুতি: পাঠের মূলভাব লিখন, উদ্ধৃতি ব্যাখ্যা, লেখক পরিচিতি। বাংলা ২য় পত্র: উচ্চারণের নিয়ম, বচন, নির্দেশক, বাগর্থ। লিখিত প্রস্তুতি: ব্যাকরণ-সম্পর্কিত বিষয়াবলি (সংজ্ঞার্থ ও দৃষ্টান্ত)।
	English	Pronoun & Antecedent, Parallelism, Punctuation, Unit- 2 (Lesson: 1) Unit- 2 (Lesson:2, 3), Appropriate Preposition (E-G), Idioms & Phrases (E-G), Vocabulary (E-G), Spelling (E-G), Group Verbs (E-G)
	GK (Bangladesh Affairs)	Birth Of The State Of Pakistan, Language Movement, 1954 United Front Election, Stages Of The Independence Movement (1955 Mari Agreement, Pakistan's First Constitution-1956, Kagmari Conference-1957, Martial Law Declaration-1958, Basic Democracy-1959, Education Movement-1962, Presidential Election-1965, Six-Point Movement, Historic Agartala Conspiracy Case, 1969 Mass Uprising, 1970 General Election.
Week-04	Bangla	বাংলা ১ম পত্র: কবিতা: বিদ্রোহী। লিখিত প্রস্তুতি: কবিতার মূলভাব লিখন, কবিতার উদ্ধৃতি ব্যাখ্যা, লেখক পরিচিতি। বাংলা ২য় পত্র: বানান ও বানান শুদ্ধি, গ-তু ও ষ-তু বিধান, বাগধারা ও প্রবাদ-প্রবচন; (পৃ.৪৬৪-পৃ.৪৬৬)। লিখিত প্রস্তুতি: ব্যাকরণ-সম্পর্কিত বিষয়াবলি (সংজ্ঞার্থ ও দৃষ্টান্ত)।
	English	Adjective & Comparison of Degrees, Conditionals, Analogy, Unit- 2 (Lesson: 4); Unit- 3 (Lesson: 1, 3), Appropriate Preposition (H-I), Idioms & Phrases (H-I), Vocabulary (H-I), Spelling (H-I), Group Verbs (H-I)
	GK (International Affairs)	Important Seas, Oceans, Gulfs, Islands, Peninsulas, And Seaports Of The World, Important Rivers, Lakes, Waterfalls, Straits, Canals, Channels, And Capes Of The World, Renowned Mountains And Deserts, Boundaries Of The World, Famous Squares, Triangles, And Circles; Settlements, Controlled Areas, And Special Regions Introduction.