HSC ICT Advance Full Course

[Online/Combo]

Class & Exam Routine part-01 (English Version)

Date & Day	Live Class		Live Exam	Online: From 8:00am to 11:55pm
	11:15am [Monday & Thursday]			Offline: From 9:00am to 5:00pm
20 June 2025 (Friday) Orientation Class [Evening-7:15pm]				
23 June 2025 (Monday)	ICT-01; Chapter-03		Basic Introductory Exam	
26 June 2025 (Thursday)	ICT-17; Chapter-02		Daily Live Exam ICT-01 MCQ (10×1=10); 10 min.	
30 June 2025 (Monday)	ICT-02; Chapter-03		Daily Live Exam ICT-17 MCQ (10×1=10); 10 min.	
03 July 2025 (Thursday)	ICT-18; Chapter-02		Daily Live Exam ICT-02 MCQ (10×1=10); 10 min.	
07 July 2025 (Monday)	ICT-03; Chapter-03		Daily Live Exam ICT-18 MCQ (10×1=10); 10 min.	
10 July 2025 (Thursday)	ICT-19; Chapter-02		Daily Live Exam ICT-03 MCQ (10×1=10); 10 min.	
14 July 2025 (Monday)	ICT-04; Chapter-03		Daily Live Exam ICT-19 MCQ (10×1=10); 10 min.	
17 July 2025 (Thursday)	ICT-20; Chapter-02		Daily Live Exam ICT-04 MCQ (10×1=10); 10 min.	
21 July 2025 (Monday)	ICT-05; Chapter-03		Daily Live Exam ICT-20 MCQ (10×1=10); 10 min.	
24 July 2025 (Thursday)	ICT-21; Chapter-01		Daily Live Exam ICT-05 MCQ (10×1=10); 10 min.	
28 July 2025 (Monday)	ICT-06; Chapter-03		Daily Live Exam ICT-21 MCQ (10×1=10); 10 min.	
29 July 2025 (Tuesday) Monthly Exam-01	ICT Lecture-01 to 05 & 17 to 20 CQ (3×10=30); 1.30 hrs. & MCQ (25×1=25); 20 min.			
31 July 2025 (Thursday)	ICT-22; Chapter-01		Daily Live Exam ICT-06 MCQ (10×1=10); 10 min.	
04 August 2025 (Monday)	ICT-07; Chapter-03		Daily Live Exam ICT-22 MCQ (10×1=10); 10 min.	
07 August 2025 (Thursday)	ICT-23; Chapter-05		Daily Live Exam ICT-07 MCQ (10×1=10); 10 min.	
11 August 2025 (Monday)	ICT-08; Chapter-03		Daily Live Exam ICT-23 MCQ (10×1=10); 10 min.	
14 August 2025 (Thursday)	ICT-24; Chapter-05		Daily Live Exam ICT-08 MCQ (10×1=10); 10 min.	
18 August 2025 (Monday)	ICT-09; Chapter-03		Daily Live Exam ICT-24 MCQ (10×1=10); 10 min.	
21 August 2025 (Thursday)	ICT-25; Chapter-05		Daily Live Exam ICT-09 MCQ (10×1=10); 10 min.	
25 August 2025 (Monday)	ICT-10; Chapter-03		Daily Live Exam ICT-25 MCQ (10×1=10); 10 min.	
26 August 2025 (Tuesday) Monthly Exam-02	ICT Lecture-06 to 09 & 21 to 24 CQ (3×10=30); 1.30 hrs. & MCQ (25×1=25); 20 min.			
28 August 2025 (Thursday)	ICT-26; Chapter-05		Daily Live Exam ICT-10 MCQ (10×1=10); 10 min.	
The next class and exam routine (Part-02) will be published...				
The routine can change or be modified in case of special necessities				

Online Class and Exam Procedure:

- To participate in classes and exams, visit **udvash.com** and click on the "**Join Now**" menu. **Log in** using your admitted registration number.
- **Daily Live Classes** will be held as per the schedule, with at the mentioned date and time.
- **Daily Live Exams** will be available as per the schedule from **8:00am to 11:55pm**, where students can take the exam once per with. However, for additional practice, students can take the Practice Exam multiple times with the same syllabus.
- To watch recorded videos and PDFs of daily classes, use the "**Past Classes/Course & Content**" option.
- To access **Archive Classes & One Shot CQ-**MCQ **Classes**, use the "**Course & Content**" option.
- The **Q&A** option is available **24/7** to resolve subject-related queries after the class.
- All students enrolled in the Combo Batch can take chapter-based exams both online and at any nearby branch (**from 9:00am to 5:00pm**).
- To get updates quickly, join our Facebook group (**HSC & Admission উল্লাস-উন্মেষ**).

ICT Reference Book: প্যারালাল TEXT		
Chapter	**Lecture**	**Lecture-based discussion topics**
Chapter-3 Number System and Digital Device	ICT-01	Number System- History of Invention of Numbers, Egyptian / Hieroglyphics Number System, Babylonian Number System, Roman Number System, Mayan Number System, Hindu-Arabic Number System, Types of Number Systems, Decimal, Binary Number System, Octal Number System, Hexadecimal Number System.
	ICT-02	Number System Conversion - Convert decimal to any other number system.
	ICT-03	Convert any other number system to decimal.
	ICT-04	Reciprocal conversion of any number system other than decimal, conversion with calculator, binary addition.
	ICT-05	Binary subtraction, Signed numbers, 1's complement, 2's complement.
	ICT-06	Code, BCD Code, Alpha Numeric Code, ASCII Code, EBCDIC Code, Unicode.
	ICT-07	Boolean Algebra- Boolean variables and constants, Boolean fundamental theorem, truth table.
	ICT-08	Boolean Functions, Boolean Equations, Duality, Logic Gates, Basic Logic Gates.
	ICT-09	Compound gate, universal gate, special logic gate, implement any circuit using NAND gate.
	ICT-10	implement any circuit using NOR gate. Circuits and Equations (Drawing Logic Circuits from Boolean Equations, Writing Equations from Logic Circuits).
Chapter-2 Communication Systems and Networking	ICT-17	Data Communication and Data Transmission- Concept of Data Communication, Signals (Analog and Digital), Fundamentals of Data Communication, Bandwidth, Calculation of Bandwidth, Data Transmission Methods, Parallel and Serial Transmission, Synchronous, Asynchronous and Isochronous Transmission, Modes of Data Transmission, simplex, half duplex and duplex transmission, unicast, broadcast and multicast.
	ICT-18	Data Communication Media, Wireless Media- Electro-Magnetic Spectrum and Reasons to Use Radio Waves, Microwaves and Infrared, Radio Waves, Microwaves, Terrestrial Microwave, Satellite Microwave, Infrared, Wireless Communication Systems, Wireless Internet Access Points, Hotspot, Bluetooth, Wi-Fi, WiMAX, mobile communications, different generations of mobiles.
	ICT-19	Wired medium – twisted pair cable, coaxial cable, connectors of coaxial cable, fiber optic cable, laser and LED, computer networking – concept of networking, purpose of computer network, types of networks, classification of network according to geographical spread, service delivery and control.
	ICT-20	NIC, Modem, Hub, Switch, Router, Gateway, Repeater, Bridge, Network Topology, Cloud Computing- Characteristics of Cloud Computing, Positive and Negative Effects of Cloud Computing, Creative Questions.
Chapter-1 Information and Communication Technology: World and Bangladesh Perspective	ICT-21	Information and Communication Technology and Our Bangladesh- Data and Information, Technology, Information and Communication Technology: Bangladesh Perspective, Digital Bangladesh Initiative Software Industry, Concept of Global Village- Elements of Establishing Global Village, Communication, Housing, Education, Medical, Employment, Office, Business, Trade, Research, news, entertainment, social media, cultural exchange, VR- History, Constituents of Virtual Reality, Application and Impact of Virtual Reality, Uses and Benefits of Virtual Reality, Recent Trends in Information and Communication Technology- Defense, ICT in Defense Industry, Space Expedition, Application of ICT in Space Research, Space Expedition: Bangladesh perspective , Robotics, Features of Robot, Some Important Robot Introduction in Technology World, Use of Robot, Artificial Intelligence, How Artificial Intelligence Works, Applications of AI, Uses of AI, Disadvantages of Artificial Intelligence.
	ICT-22	Biometrics, Areas of Application of Biometric Technology, Steps of Individual Identification in Biometrics Technology, Bioinformatics, Gene Engineering, Methods of Genetic Engineering, Application of ICT in Genetic Engineering, Uses of Genetic Engineering, Genetic Engineering in the Context of Bangladesh, Nanotechnology methods, advantages and applications of nanotechnology, ICT-based production systems, information and communication technology and economic development, ethics in the use of information and communication technology, different types of cybercrime, laws to suppress cybercrime, information and communication technology in social life Effects- Positive Effects of Information Technology, Negative Effects of Information Technology, Creative Questions.
Chapter-5 Programming Language	ICT-23	Programming- different generations of programming languages, first generation, second generation, third generation, fourth generation, fifth generation, level of programming language (low, middle, high)
	ICT-24	Translator program, compiler, interpreter, assembler.
	ICT-25	Steps of program creation, program organization, algorithm, flowchart (flow diagram), flowchart symbols, basic pattern of flowchart formation, rules for creating a flowchart.
	ICT-26	Examples of algorithms and flowchart