Short Syllabus of HSC Exam 2021
Subject: Information and Communication Technology (ICT)
Subject Code: 275　　　Full Marks :100　　　Theory: 75　　　Practical: 25

Name of the Chapter	Topic	Number of Class	Serial of Class	Comment
Chapter 01: Information and communication Technology: World and Bangladesh Perspective	➢ Concept of Global Village o Communication o Employment o Education o Medical Facilities o Research o Office o Residence o Business o News o Entertainment and Social Communication o Exchange of Cultural Activities	01	1st	
	➢ Virtual Reality	01	2nd	
	➢ Contemporary trends of ICT 　o Artificial Intelligence 　o Robotics 　o Cryosurgery 　o Space Exploration 　o ICT dependent Production 　o Defense	01	3rd	
	o Biometrics o Bioinformatics o Genetic Engineering o Nanotechnology	01	4th	
	o Ethical use of ICT o Impact of ICT on Social Life o ICT and Economic Development	01	5th	
Chapter 02: Communication System and Networking	➢ Communication System o Concept of Communication System o Concept of Data Communication o Bandwidth	01	6th	
	o Data transmission method	01	7th	
	o Data transmission mode o Medium of data communication	01	8th	
	➢ Wired medium o Co-axial cable o Twisted pair cable o Optical fiber cable	01	9th	
	➢ Wireless medium o Radio Wave	01	10th	

	o Microwave o Wireless communication System o Necessity of wireless communicant System			
	o Bluetooth o Wi-fi o Wi-Max	01	11th	
	o Mobile communication	01	12th	
	o Computer Networking o Concept of network o Objectives of network o Types of network	01	13th	
	o Network Devices: o Modem, Hub, Router, Gateway, Switch, NIC o Functions of network	01	14th	
	o Network topology o Cloud computing o Advantage of Cloud computing	01	15th	
Chapter 03: Number System and Digital Device	➢ History of inventing Numbers	01	16th	
	➢ Number System o Classification of Number System	01	17th	
	o Conversion of Numbers	01	18th, 19th, 20th	
	o Addition and Subtraction in Binary System	01	21th	
	o Signed Numbers	01	22th	
	o 2's Complement	01	23th	
	➢ Code o Concept of Code o BCD, EBCDIC, Alphanumeric code, ASCII, Unicode	01	24th	
Chapter 04: Introduction to web design and HTML	➢ Concept of web page design	01	25th	
	o Web site structure	01	26th	
	o Fundamental Elements of HTML o Concept of HTML o Advantages of HTML	01	27th	
	o Introduction to HTML Tags & HTML Syntax	01	28th, 29th	
	o HTML layout	01	30th	
	o Formatting	01	31th	
	❖ Uses of formatting tag in HTML	01	32th	Practical
	❖ Uses of Paragraph, Heading, Color, and combination	01	33th	Practical
	❖ Uses of Bullet and order list in webpage	01	34th	Practical
	o Hyperlink	01	35th	

	o Add image in webpage	01	36th	
	❖ Add image and hyperlink in webpage	01	37th	Practical
	o Table	01	38th	
	❖ Create Table in HTML and input Data in the Table	01	39th	Practical
	❖ Uses of Frame in HTML	01	40th	Practical
	o Concept of website publishing	01	41th	
	❖ Designing web page ❖ Publishing a web site	01	42th	Practical
	Total	42		

Practical	Practical work must be completed within theory class
1. Uses of formatting tag in HTML 2. Uses of Paragraph, Heading, Color and Layout 3. Uses of Bullet and Order list in Webpage 4. Add an image and uses of Hyperlink in webpage 5. Create Table in HTML and input of DATA in the Table. 6. Uses of Frame in HTML 7. Concept of publishing a website.	

Marks distribution: Question pattern and marks distribution will be unchanged.