



4th Batch

Special Course Plan for Job Preparation for ALL (Tentative)

Total class + PDF – 35

extra class (NTRCA/Diploma) –5

Theory subject Suggestion/PDF–2

Exam– 10

Course Instructor: bitBox Team

Subject Name & Time	Class Date	Contact Topics		Total Class	Instructor/ Lecturer (Tentative)
Programming in C/C++	<ol style="list-style-type: none"> 12-01-24 14-01-24 16-01-24 18-01-24 20-01-24 	Data Type, Variables and Operator, Control flow Statement and Loop, Function, Array and String, File. Output code. Basic Study and 5 OOP key Concepts... JVM, Some Output code Program	Class Time: 8:10 PM	5	Engr. Harun-Or-Rashid Assistant Programmer Ministry of Land Author: bitBox University: DUET
1	Exam-22-01-24; Time: (9.00- 9.40) PM; Exam Taker: Course Instructor				
DBMS	<ol style="list-style-type: none"> 24-01-24 26-01-24 28-01-24 30-01-24 01-02-24 	Basic theory, Keys(primary, candidate, super, foreign) and E-R Diagram, Aggregate function, Join Operation, ACID, DB Language, Basic Query, Sub Query and Join Query. Relational algebra, ERD, Apache server, MySQL, NoSQL, Trigger Concurrency Control, DDL, DML, RDBMS, DFD, CRUD LGWR PROCESS, Data Mining, Data warehouse, Functional dependencies, Normalization	Class Time: 8:10 PM	4	Assistant Engineer, DESCO University: BUET
2	Exam-03-02-24; Time: (9:00-9:40) PM; Exam Taker: Course Instructor				
Data Structure & Algorithm	<ol style="list-style-type: none"> 05-02-24 07-02-24 09-02-24 11-02-24 	Basic study, Stack, Queue and Linked List, Tree and Tree Traversing, Notation, and Heap, Sorting and Searching Algorithm. Dynamic programming, divide and conquer, greedy method, (bellman ford, Dijkstra, TSP), Hash, array, graph, BFS, DFS, B+ Tree Complexity	Class Time: 8:10 PM	4	BUET
3	Exam-13-02-24; Time: (9.00- 9.40) PM; Exam Taker: Course Instructor				
Operating System and Commands	<ol style="list-style-type: none"> 15-02-24 17-02-24 19-02-24 21-02-24 	Kernel, Process state and CPU Scheduling, Deadlock & Deadlock Handling, Short Notes (Ex- Virtual, Cache Memory, Paging). Page replacement algorithm, Scheduling algorithm	Class Time: 8:10 PM	4	

		Trashing batch processing, cron job, .NET, android, Linux Commands.			
4	Exam-23-02-24; Time: (9.00- 9.40) PM; Exam Taker: Course Instructor				
Data Communication	1. 25-02-24 2.27-02-24	All cable media, multicast, unicast, broadcast, anicast, OSI, TCP/IP Model, Wi-fi, Wi- Max, Bluetooth, propagation time ,transmission time-related math, IbEEE 802		2	Lecturer- Hajee Mohammad Danesh Science and Technology University, University: HSTU
Computer Network & Security	1. 02-03-24 2. 04-03-24 3. 06-03-24 4. 08-03-24 5. 10-03-24	Types of Computer Network, Connectivity Device, , Topology, Protocol- SMTP, DNS, ARP, DHCP, ICMP, UDP, TCP, FTP, , NAT,NMS, , circuit switching,pkt swithing VoIP, OSPF, IP, Sub-netting, Cryptography(private, public key encryption)-Digital signature,hasing, One time pad, block chiper, DES- 3DES,AES,RSA, Network security- Firewall, WAF,NGFW-MITM,replay attack, DoS attack, TCP syn flood attack, session hijack attack, MAC flood attack,zero day attack, wannaCry,DNS amplification attack, ARP spoofing,smurf attack, Land attack,DHCP starvation and spoofing attack,DNS cache poisoning, SSL, VPN,		5	Engr. Rakibul Islam RKB Assistant Network Engineer, Department of ICT. Recommended- Janata Bank, Pubali Bank, DPDC Author – bitBox University: DUET
5	Exam-12-03-24; Time: (9.00- 9.40) PM; Exam Taker: Course Instructor				
Tele- Communication	1. 14-03-24 2. 16-03-24	Telecom theory, PCM math, TDMA math, SNR math, Bit rate math, transmission, LTE, 4G,5G		2	Assistant Network Engineer, Department of ICT. Recommended: ANE, BCC(1st Position) University: KUET
Miscellaneous		Cloud Computing, Big Data, Data Mining and Data Ware House, E-Commerce. supervised unsupervised learning, LSTM gate	Sugges sion	Han dnot e	bitBox

Digital Electronics	1. 19-03-24 2. 21-03-24 3. 23-03-24 4. 25-03-24	Number System, 1's and 2's Complement, BCD, Excess-3, Logic Gates, SOP, POS, Comparator, Boolean Expression, Simplification, Adder & Subtractor, K-Map, MUX, DEMUX, Counter, flip flop. 7 segments display,		4	
6	Exam-27-03-24; Time: (9.00- 9.40) PM; Exam Taker: Course Instructor				
Theory of Computation	1. 29-03-24 1. 31-03-24	CFG, compiler phase, Interpreted language, finite automata, DFA,NFA		2	Assistant Network Enigneer , BCC Ex- DPDC, DESCO, Rupali Bank University: DUET
SE & System Analysis		Different types of Software Model (SDLC, Waterfall, Agile, scrum and so on), DFD, CASE tools and Software Testing (All). Forward and reverse engineering,MVC	Suggestion	Han dnote	bitBox
µP & µC	1. 02-04-24	Basic Study, Memory & Memory Hierarchy + Basic Theory and Flag Register of 8085 and 8086, Address Line Parity bit, Interrupt, Catch hit Math processor (64.32 bit,) Assembly language, Processor core i, XSLT Processors		1	Md. Ala Uddin Author: bitBox Job: BTCL University: DUET
7	Exam-04-04-24; Time: (9.00- 9.40) PM; Exam Taker: Course Instructor				
Discrete Math	1. 06-04-24 2. 08-04-24	Proposition, Tautology, Contradiction, Predicate logic. Probability		2	Assistant Network Enigneer , BCC Ex -DPDC, DESCO, BTRC, Rupali Bank University: DUET
8	Exam-12-03-24; Time: (9.00- 9.40) PM; Exam Taker: Course Instructor				
5 speacial class for NTRCA / Diploma engineers	1. 10-04-24 2. 12-04-24 3. 14-04-24 4. 16-04-24 5. 18-04-24 Or middle in schedule	Based on Job question topics			bitBox
9	Exam-04-04-24; Time: (9.00- 9.40) PM; Exam Taker: Course Instructor				
	Note: Every Class will start at 8.00 PM and End at 9.30 PM Or Instructor Choice.				
	কোর্স ইন্সট্রাক্টর এবং সবার সুযোগ-সুবিধা অনুসারে ক্লাসের তারিখ ও সময় এবং পরীক্ষার তারিখ ও সময় পরিবর্তনযোগ্য। কন্টাক্ট টপিকসের বাহিরেও কোর্স ইন্সট্রাক্টর নিজ অভিজ্ঞতা ও ধারণা থেকে অন্য টপিকস পড়াতে পারবেন।				
10	Final Exam (Overall Department-25/04/2024, Time: (8.30-9.30) PM, Exam taker: bitBox				

Course Co-coordinator: বিটবক্স
Executive Member of bitBox Group
For any Query, Please Call:
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