Project for ICT Engineers Development for the Promotion of the ICT Industry and New Innovations (JICA-BCC-BASIS TCP) ICT Tower, Agargaon, Dhaka

B-TopSE Cloud Course For Practitioners (2nd Batch) 17th, 19th & 20th September, 2025

Day	Sess	Lect	Mod	Title	Contents	Main Trainer	Advisor (Support)	Place	Time	Mins	Total Mins	Trainers
				Opening remarks & Photo session	Opening remarks by JICA & BITM			BITM Lab	18:00- 18:10	10		
				Self-Introduction by Trainers	Having Self-Introductions from the trainers	Both	Both	#401	18:10- 18:15			
	1			Tea Break (15 mins) 18:15-18:30								
Day 1 17 September 2025 Wednesday		1		Review Rec.1: Introduction	Purpose of this lecture Textbooks Definition: Distributed system Some Goals of Distributed Systems Focus of this lecture Typical Problem Setting Possible defects	Dr. A. K. M. Muzahidul Islam	Mr. Shahidul Islam	BITM Lab #401	18:30- 19:00	30	75	Dr. A. K. M. Muzahidul Islam (Professor, Department of Computer Science and Engineering, United International University) & Mr. Shahidul Islam (Sr. Machine Learning Engineer, HeadBlocks)
				Review Rec.1: Introduction	Properties to be guaranteed Difficulties Recent Trends (Cloud Environment) What the instructor expects Schedule	Mr. Shahidul Islam	Dr. A. K. M. Muzahidul Islam		19:00- 19:20	20		
				Understanding of Cloud course	Whole contents including Quiz.	Both	Both		19:20- 19:30	10		
				Self-Introduction by Trainers	Having Self-Introductions from the trainers	Both	Both	BITM Lab #401	9:30-9:35	5		
		2	Α	Review of Lec.1		Mr. Md. Mazharul Islam	Mr. Md Intekhabul Hafiz Mr. Md Intekhabul Hafiz		9:35-9:45	5 10		
			В	"#2 : Reuse of Basic Protocols 1. Agenda"	Agenda Example of Possible defects	Mr. Md. Mazharul Islam			9:45-9:55	10		
			С	2. Introduction to Basic Examples	Basic Example: Explain application Basic Example: Impact analysis of server crash Basic Example: Countermeasure Basic Example: Consideration of network failures	Mr. Md. Mazharul Islam	Mr. Md Intekhabul Hafiz		9:55- 10:05	10		
	1		D	3. Protocol Reuse	Reuse of protocols Example of Protocol Protocol guarantees "correctness" Examples of Guaranteed Properties DEMO1: Analyze by general model checker DEMO2: Analyze by general model checker	Mr. Md. Mazharul Islam	Mr. Md Intekhabul Hafiz		10:05- 10:15	10		
			E	Distributed Commitment	Commitment Problem Commitment Problem Application Example Commitment Problem: Application Example Commitment Problem: Countermeasure Resolve by reusing protocols Two-phase commitment protocol 2PC: Protocol Description (Basic) 2PC: Basic Box be considered 2PC: Failures of participants 2PC: Update of protocol	Mr. Md. Mazharul Islam	Mr. Md Intekhabul Hafiz		10:15- 10:25	10		
			Teo Break /15 mins) 10:25:11:40								Mr. Md. Mazharul Islam	
Day 2 19 September 2025 Friday		2	E	4. Distributed Commitment	Exercise Hint Answers are on a separate slide. APPC (Three phase commitment protocol) SPC (Basic) SPC (Basic) SPC Practical positioning Reference. Transaction Specifications for Web Services Two approaches to obstacles	Mr. Md. Mazharul Islam	Mr. Md Intekhabul Hafiz		10-40- 11:10	30	180	(Technical Lead & System Analyst, Daffodil Computers Ltd) & Mr. Md Intekhabul Hafiz (Research Assistant, Department of Computer Science and Engineering,Brac University)
			F	Summary		Mr. Md. Mazharul Islam	Mr. Md Intekhabul Hafiz		11:10- 11:20	10	 	
			Α	Review Lec.2		Mr. Md Intekhabul Hafiz	Mr. Md. Mazharul Islam		11:20- 11:25	5		
			В	"#3 : Quorum 1.Agenda"	Agenda	Mr. Md Intekhabul Hafiz	Mr. Md. Mazharul Islam		11:25-	11:25- 11:35		
		3	С	Quorum approach in groups with fixed members	Data replication Example of data replication Quorum: abstract Quorum Example of Quorum Quorum: Supplement Quorum: Supplement Quorum: Other use cases Examples of quorum implementations Other methods of replication management The Byzantine General Problem Well known solution Example Example of things that don't work Explanation of Solution Correspondence with the real world	Mr. Md Intekhabul Hafiz	Mr. Md. Mazharul Islam	BITM Lab #401	11:35- 12:05	30		
			D	3.Building of group management service	Group management: design policy Group management image Group management coordinator Group management points to note Group management points to note Guaranteed Properties Example of group management	Mr. Md Intekhabul Hafiz	Mr. Md. Mazharul Islam	-	12:05- 12:35	30		
			Е	Summary		Mr. Md Intekhabul Hafiz	Mr. Md. Mazharul Islam		12:35- 12:45			
					Lunch Break & Prayer time	(1 hour and 45 minutes) 12:45-14:30 @BASIS A	uditorium				
			Α	Self-Introduction by Trainers		Both	Both		14:30- 14:35	5		
			В	Review Lec.3		Mr. Md. Mohiuddin	Ms. Shamima Haque		14:35- 14:45	10		
			С	"#4 : Ordering 1.Agenda"		Mr. Md. Mohiuddin	Ms. Shamima Haque		14:45- 14:55	10		
			D	2.Order, Causality and Consistency	Failure due to order Order and Causality Order and Absolute time Order and Agreement Order and Causality (Examples outside of replication)	Mr. Md. Mohiuddin	Ms. Shamima Haque		14:55- 15:05	10		

Day 2 19 September 2025 Friday	2	4	Е	3.Logical Clock	Logical Clock Logical Clock: Bad Example Logical Clock: Good Example Logical Clock: Clock Correction Logical Clock: Vector Timestamp	Mr. Md. Mohiuddin	Ms. Shamima Haque	BITM Lab #401	15:05- 15:15	10	170	Mr. Md. Mohiuddin (Senior Software Engineer, Esteem Soft Limited) & Ms. Shamima Haque (Trainer, Al Software Solutions)
				4. Ordered Multicast	Ordered Multicast FIFO Multicast Causal Ordering Multicast Causal Ordering Multicast: Motivation Causal Ordering Multicast: Generalize	Mr. Md. Mohiuddin	Ms. Shamima Haque		15:15- 15:45	30		
			F		Exercise Exercise: Scenario Total Order Multicast Atomic Multicast Durable Atomic Multicast	Mr. Md. Mohiuddin	Ms. Shamima Haque		15:45- 15:55	10		
			G	"5.Defining Consistency in Replication Management"	Consistency in data replication Consistency Model Various Consistency Models Sequential Consistency Causal Consistency FIFO Consistency Weak Consistency Eventual Consistency Eventual Consistency Eventual Consistency Use of different data stores based on consistency model Summary Summar	Mr. Md. Mohluddin	Ms. Shamima Haque		15:55- 16:05	10		
		Î Î	А	Review Lec.4		Ms. Shamima Haque	Mr. Md. Mohiuddin		16:05- 16:10	5		
			В	#5 : Design Philosophy for the Cloud Service		Ms. Shamima Haque	Mr. Md. Mohiuddin		16:10- 16:20	10		
				2.Cloud Overview (very brief)	Definition of Cloud (1) Definition of Cloud (2) Definition of Cloud (2) Cloud Service Model Cloud Utilization Case Studies Scalability and Cost Elasticity and Cost Design Philosophy for the Cloud Supplement. Scale-up and Scale-out	Ms. Shamima Haque	Mr. Md. Mohiuddin		16:20- 16:30	10		
		5		3.Example design using Amazon Web Services -Architecture for the Cloud-	n What is "Architecture for the Cloud"?	Ms. Shamima Haque	Mr. Md. Mohiuddin		16:30- 16:35	5		
			Е		Amazon SimpleDB Eventual Consistency NoSQL Distributed Key-Value store Comparison of RDB and NoSQL (roughly)	Ms. Shamima Haque	Mr. Md. Mohiuddin		16:35- 16:40	5		
					Tea Break (15 mins) (16:	40-16:55)						
			F	5.Example design using Amazon Web Services -Service for the Cloud_ SQS-	Amazon SQS Supplement: Amazon Web Services Summary	Ms. Shamima Haque	Mr. Md. Mohiuddin	BITM Lab #401	16:55- 17:35	40		
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		ļ	ļ	Self-Introduction by Trainers	Having Self-Introductions from the trainers	Both	Both		10:00- 10:05	5		
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			Α	Review Lec.5		Mr. Sadik Ahammed Siddique	Mr. Md Al-Imran		10:05- 10:10	10		
			В	Review Lec.5 "#6_Design Philosophy for the Cloud Service (2) 1.Agenda"	Fundamentals of Distributed Systems and Use in the Cloud: Design Philosophy for the Cloud Service (2)		Mr. Md Al-Imran Mr. Md Al-Imran		10:05- 10:10 10:10- 10:20	10		
		6	В	"#6_Design Philosophy for the Cloud Service (2)		Siddique Mr. Sadik Ahammed		BITM Lab #401	10:10			
		6	В	*#6. Design Philosophy for the Cloud Service (2) 1. Agenda* 2. Design of Amazon DynamoDB	Cloud: Design Philosophy for the Cloud Service (2) Amazon DynamoDB Design of Initial DynamoDB: Version Control Design of Initial DynamoDB: Version Control	Siddique Mr. Sadik Ahammed Siddique Mr. Sadik Ahammed	Mr. Md Al-Imran	BITM Lab #401	10:10 10:10- 10:20	10		
		6	B C	"#6. Design Philosophy for the Cloud Service (2) 1. Agenda" 2. Design of Amazon DynamoDB 3. Exercise_ System design using cloud services *4. Supplement_ Examples of other services related to duplication management."	Cloud: Design Philosophy for the Cloud Service (2) Amazon DynamoDB Design of Initial DynamoDB: Principle Design of Initial DynamoDB: Version Control Design of Initial DynamoDB: Read/Write Exercise: Designing features that take into account the limitations of the data store Memcached Google BigTable Other services	Siddique Mr. Sadik Ahammed Siddique Mr. Sadik Ahammed Siddique Mr. Sadik Ahammed Mr. Sadik Ahammed	Mr. Md Al-Imran Mr. Md Al-Imran	BITM Lab #401	10:10 10:10- 10:20 10:20- 10:30	10		Mr. Sadik Ahammed Siddique (Assistant Programmer, BCC)
	1	6	B C	"#6. Design Philosophy for the Cloud Service (2) 1. Agenda" 2. Design of Amazon DynamoDB 3. Exercise_ System design using cloud services *4. Supplement_ Examples of other services related to duplication management."	Cloud: Design Philosophy for the Cloud Service (2) Amazon DynamoDB Design of Initial DynamoDB: Principle Design of Initial DynamoDB: Version Control Design of Initial DynamoDB: Read/Write Exercise: Designing features that take into account the limitations of the data store Memcached Google BigTable	Siddique Mr. Sadik Ahammed Siddique	Mr. Md Al-Imran Mr. Md Al-Imran Mr. Md Al-Imran	BITM Lab #401	10:10 10:10- 10:20 10:20- 10:30 10:30- 11:10	10	170	Siddique (Assistant Programmer, BCC) & Mr. Md Al-Imran
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Day 3 20 September 2025 Saturday	1	7	B C D	"#6. Design Philosophy for the Cloud Service (2) 1. Agenda" 2. Design of Amazon DynamoDB 3. Exercise_ System design using cloud services *4. Supplement_ Examples of other services related to duplication management."	Cloud: Design Philosophy for the Cloud Service (2) Amazon DynamoDB Design of Initial DynamoDB: Principle Design of Initial DynamoDB: Version Control Design of Initial DynamoDB: Read/Write Exercise: Designing features that take into account the Imitations of the data store Memcached Google BigTable Other services Summary	Siddique Mr. Sadik Ahammed Siddique	Mr. Md Al-Imran	BITM Lab #401	10:10 10:10-10:20 10:20-10:30 10:30-11:10 11:10-11:30	10	170	Siddique (Assistant Programmer, BCC) & Mr. Md Al-Imran (Senior Lecturer, Department
20 September 2025	1		B C D	"#6. Design Philosophy for the Cloud Service (2) 1. Agenda" 2. Design of Amazon DynamoDB 3. Exercise_ System design using cloud services "4. Supplement_ Examples of other services related to duplication management" Review Lec. 6	Cloud: Design Philosophy for the Cloud Service (2) Amazon DynamoDB Design of Initial DynamoDB: Principile Design of Initial DynamoDB: Version Control Design of Initial DynamoDB: Read/Write Exercise: Designing features that take into account the limitations of the data store Memcached Google Big Table Other services Summary Tea Break (15 mins) 11:30 CAP Theorem CAP Theore	Siddique Mr. Sadik Ahammed Siddique Mr. Md Al-Imran	Mr. Md Al-Imran Mr. Sadik Ahammed Siddique	#401	10:10 10:10- 10:20 10:20- 10:30 11:10 11:10- 11:30 11:45- 11:50	10 10 40 20 5	170	Siddique (Assistant Programmer, BCC) & Mr. Md Al-Imran (Senior Lecturer, Department of Computer Science and Engineering, East West
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20 September 2025	1	7	B C D E	"#6_Design Philosophy for the Cloud Service (2) 1.Agenda" 2.Design of Amazon DynamoDB 3.Exercise_ System design using cloud services "4.Supplement_ Examples of other services related to duplication management" Review Lec.6 "#7_Discussion and Summary 1.Design Philosophy, CAP Theorem and BASE" 2.Relation to Software Engineering Technologies 3.Summary Group discussion	Cloud: Design Philosophy for the Cloud Service (2) Amazon DynamoDB Design of Initial DynamoDB: Principle Design of Initial DynamoDB: Principle Design of Initial DynamoDB: Principle Design of Initial DynamoDB: Read/Write Exercise: Designing features that take into account the limitations of the data store Memcached Google Big Table Other services Summary Tea Break (15 mins) 11:30 CAP Theorem CAP	Siddique Mr. Sadik Ahammed Siddique Mr. Md Al-Imran	Mr. Md Al-Imran Mr. Md Al-Imran Mr. Md Al-Imran Mr. Md Al-Imran Mr. Sadik Ahammed Siddique	BITM Lab	10:10 10:10 10:10 10:20 10:20 10:30 11:10 11:10 11:10 11:50 11:50 12:00 12:10 12:10 12:10 12:10 12:10 12:10 12:10 13:00	10 10 40 20 5 10 10 40	170	Siddique (Assistant Programmer, BCC) & Mr. Md Al-Imran (Senior Lecturer, Department of Computer Science and Engineering, East West University) Mr. Annajiat Alim Rasel
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