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Department of Master of Computer Applications

TENTATIVE LESSON PLAN
Data Base Management System (MC2021)

Course Title: Data Base Management System			
Section : MCA	Date : 10/5/21		Page No : 01 of 03
Revision No : 00	Prepared By : SRILAKSHMI. K		Approved By : HOD

Tools : Black board, PPTs, Moodle

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT –I	**An Overview of Database Management**		
CO1: Describe a relational database and object-oriented database.			
TB : Introduction to Database Systems, CJ Date, Pearson			
1.	Introduction- What is Database System,	From: 17/5/2021 To: 31/5/2021	Online class with MS Teams
2.	What is Database, Why Database		
3.	Data Independence, history		
4.	Relation Systems and Others		
5.	When not to use DBMS		
6.	Data models, schemas and instances		
7.	The Three Levels of Architecture- The External Level, the Conceptual Level, the Internal Level		
8.	Mapping, Database Administrator		
9.	The Database Management System environment		
10.	Client/Server Architecture		
11.	Classification of DBMS		
	Tutorial		

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT –II	**Relational Model**		
CO2: Describe ER model and normalization for database design.			
TB : Introduction to Database Systems, CJ Date, Pearson			
12	Database Design and ER Diagrams	From: 1/6/2021 To 15/6/2021	Online class with MS Teams
13	Entities, Attributes and Entity Sets		
14	relationships and Relationship sets		
15	Additional Features of the ER Model		
16	Conceptual Design with the ER model		
17	Conceptual Design for Large Enterprises		
18	to the relational Mode		

No. of Periods	TOPIC	Date	Mode of Delivery
19,20	Integrity constraints over Relations	15/6/2021	MS Teams
21	Enforcing Integrity Constraints		
22	Querying Relational |Data		
23	ER to Relational		
24	Introduction to views		
25	Destroying /altering tables and views		
26	**Tutorial**		

UNIT –III   Queries, Constraints, Triggers

CO3: Create, maintain and manipulate a relational database using SQL

TB : . Data base Management Systems, Raghurama Krishnan, Johannes Gehrke, TATA McGraw Hill 3rd Edition

No. of Periods	TOPIC	Date	Mode of Delivery
27	Selection and projection	From 16/6/2021 To 10/7/2021	Online class with MS Teams
28	Set operations, Renaming		
29	Joins and Divisions		
30	Examples of Algebra Queries		
31	The form of a basic SQL query		
32	Union, intersect and except, nested, aggregate operators		
32	Null values, complex integrity		
34	Constraints in SQL		
35	triggers		
36	Active data bases		
37	Designing active data base		
38	**Tutorial**		

No. of Periods	TOPIC	Date	Mode of Delivery

UNIT –IV   Schema Refinement (Normalization)

CO4: Describe ER model and normalization for database design.

TB : Introduction to Database Systems, CJ Date, Pearson

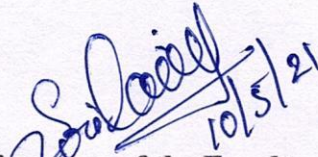| No. of Periods	TOPIC	Date	Mode of Delivery
39	Informal design	From 13/7/2021 To 30/7/2021	Online class with MS Teams
40	Guidelines for relational schema		
41	Functional dependencies		
42	Normal forms based on primary keys		
43,44	General definition of 2NF AND 3NF		
45,46	Boyce cod NF		
47	Multi valued dependency and 4NF		
48	Join dependency and 5NF		
49	**Tutorial**		

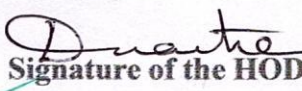**UNIT –V   Transaction Management and Concurrency Control:**

CO5: Understand the role and issues in management of data such as efficiency, privacy, security, ethical responsibility, and strategic advantage

TB : Introduction to Database Systems, CJ Date, Pearson

No. of Periods	TOPIC	Date	Mode of Delivery
50	Transaction Concept: Transaction State		

51	Implementation of Atomicity and Durability		
52,53	Concurrent Executions		
54,55	Serializability	From 31/7/2021 To 13/8/2021	Online class with MS Teams
56	Recoverability		
57	Implementation of Isolation		
58	Testing for Serializability		
59	Failure Classification,		
60	Storage		
61	ACID properties		
62	Transaction isolation levels		
63,64	Concurrency control		
65	Lock based protocols		
66,67	Validation based protocols		
68	**Tutorial**		

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TENTATIVE LESSON PLAN: MC2022

Course Title : Computer Networks		
Section : MCA	**Date :15/5/2021**	**Page No:1 of 4**
Revision No : 00	**Prepared By : P.Bhagya Lakshmi**	**Approved By : HOD**

Tools: MS Teams,PPT

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT –I Introduction			
CO1: Explain the network architecture, TCP/IP and OSI reference models			
TB: Computer Networks: Andrew S Tanenbaum David J. Wetherall, 5/e, Pearson			
1.	Introduction		
2.	Network Topologies		
3.	LAN,MAN,WAN		
4.	OSI Reference Model		
5.	TCP/IP Model		
6.	Comparison between OSI and TCP/IP	From 17/5/2021 To 31/5/2021	Online class with MS Teams
7.	Physical Layer		
8.	Introduction to physical layer		
9.	Data and Signals		
10.	digital signals,		
11.	transmission impairment,Data rate limits,performance		
12.	Introduction to Guided Media		
13.	Unguided media		
14.	Tutorial Class		
UNIT –II : DATA LINK LAYER			
CO 3: Demonstrate the data link protocols, multi-channel access protocols and IEEE 802 standards for LAN			
TB: Computer Networks: Andrew S Tanenbaum David J. Wetherall, 5/e, Pearson			
15.	The Data Link Layer - Services Provided to the Network Layer		
16.	Framing		
17.	Error Control –Flow Control,		
18.	Error Detection and Correction		
19.	Elementary Data Link Protocols- A Utopian Simplex Protocol-		
20.	A Simplex Stop and Wait Protocol for an Error		

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	free channel-	From 1/6/2021 To 15/6/2021	Online class with MS Teams
21.	A Simplex Stop and Wait Protocol for a Noisy Channel,		
22.	Sliding Window Protocols-AOne Bit Sliding Window Protocol-		
23.	A Protocol Using Go-Back-N-		
24.	A Protocol Using Selective Repeat		
25.	Tutorial class		

UNIT - III The Medium Access Control Sub layer

CO 4: Demonstrate the data link protocols, multi-channel access protocols and IEEE 802 standards for LAN

TB: Computer Networks: Andrew S Tanenbaum David J. Wetherall, 5/e, Pearson

No. of Periods	TOPIC	DATE	Mode of Delivery
26.	**The Medium Access Control Sub layer**-The Channel Allocation Problem		
27.	Static Channel Allocation-Assumptions for Dynamic Channel Allocation,		
28.	Multiple Access Protocols-Aloha-		Online class with MS Teams
29.	Carrier Sense Multiple Access Protocols-	From 16/6/2021 To 10/7/2021	
30.	Collision-Free Protocols		
31.	Limited Contention Protocols-		
32.	Wireless LAN Protocols,		
33.	Ethernet-Classic Ethernet Physical Layer-Classic Ethernet		
34.	MAC Sublayer Protocol-Ethernet Performance-Fast Ethernet		
35.	Gigabit Ethernet-10-Gigabit Ethernet-Retrospective on Ethernet		
36.	Wireless Lans-The 802.11Architecture		
37.	Protocol Stack-The 802.11 Physical Layer		
38.	The802.11 MAC Sublayer Protocol		
39.	The 805.11 Frame Structure-Services		
40.	Tutorial class		

UNIT -IV Network Layer

CO 5: Describe routing and congestion in network layer with routing algorithms and classify IPV4 addressing scheme

TB: Computer Networks: Andrew S Tanenbaum David J. Wetherall, 5/e, Pearson

41	**Design Issues**-The Network Layer Design Issues –		

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42	Services Provided to the Transport Layer	From 13/7/21 To 30/7/21	Online class with MS Teams
43	Implementation of Connectionless Service-		
44	Implementation of Connection Oriented Service-		
45	Comparison of Virtual Circuit and Datagram Networks,		
46	Routing Algorithms-The Optimality principle		
47	Shortest path Algorithm,		
48	Flooding		
49	Distance Vector,Link state		
50	Hierarchical Routing		
51	Congestion Control Algorithms		
52	Approaches to Congestion Control-Traffic		
53	Aware Routing-Admission		
54	Control-TrafficThrottling-Load Shedding.		
55	Internet Working		
56	Tunneling		
57	Fragmentation		
58	IP version 4 Protocol		
59	IP version 6 Protocol		
60	ICMP,ARP,DHCP		
61	Tutorial Class		

UNIT -V The Transport Layer

CO 5: Develop network security and define various protocols such as FTP, HTTP, Telnet, DNS

TB: Computer Networks: Andrew S Tanenbaum David J. Wetherall, 5/e, Pearson

62	Transport layer protocols:	From 31/7/2021 To 13/8/2021	Online class with MS Teams
63	Introduction-services- port number		
64	Transmission Control Protocol		
65	User Datagram Protocol		
66	Application Layer		
67	World Wide Web		
68	HTTP		
69	FTP		
70	Electronic mail Architecture		
71	TELNET		
72	Domain Name System		
73	Tutorial Class		

P.Bhagyalakshmi
Signature of the Faculty

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TENTATIVE LESSON PLAN: MC2023

Course Title: SOFTWARE ENGINEERING and DESIGN PATTERNS(MCA2103)		
Section : MCA	Date : 31/05/2021	Page No : 01 of 05
Revision No : 00	Prepared By : CH.AMBEDKAR	Approved By : HOD

Tools: Power Point Presentation

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT-I :			
➢	**Introduction to Software Engineering:**		
➢	**The software problem:**		
➢	**Software development process models :**		
CO 1: Define various software application domains and remember different process model used in software development.			
TB: 1. Software Engineering: A Practitioner's Approach, Roger S. Pressman			
2. Software Engineering principles and practice, W S Jawadekar, TMH			
1	**UNIT-1:** The Nature of Software	31-5-2021	Lecture interspersed with discussions Online Classes with MS Teams
2	The Unique Nature of WebApps	01-6-2021	
3	Software Engineering	02-6-2021	
4	The Software Process	03-6-2021	
5	Software Engineering Practice	04-6-2021	
6	Software Myths.	07-6-2021	
7	Cost, schedule and quality	08-6-2021	
8	Scale and change	09-6-2021	
9	Software Process: Process and project	10-6-2021	
10	Component software process	11-6-2021	
11	Software development process models: Waterfall model	12-6-2021	
12	Prototyping, Iterative development	14-6-2021	
13	Relational unified process	15-6-2021	

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No. of Periods	TOPIC	Date	Mode of Delivery
14	Time boxing model	16-6-2021	
15	Extreme programming and Agile process	17-6-2021	
16	Using process models in a project	18-6-2021	
17	Project management process	19-6-2021	Online Classes with MS Teams
18	Tutorial	21-6-2021	

UNIT-II :
> **Software requirement analysis and specification:**
> **Planning a software project:**

CO 2 : Explain needs for software specifications also they can classify different types of software requirements and their gathering techniques.

TB: 1. Software Engineering: A Practitioner's Approach, Roger S. Pressman
2. Software Engineering principles and practice, W S Jawadekar, TMH

20	Value of good SRS	21-6-2021	
21	Requirement process	22-6-2021	
22	Requirement specification	23-6-2021	
23	Functional specifications with use-cases	24-6-2021	
24	Other approaches for analysis	25-6-2021	
25	Validation	26-6-2021	Lecture interspersed with discussions Online Classes with MS Teams
26	Planning software project:Effort estimation	28-6-2021	
27	Project schedule and staffing	29-6-2021	
28	Quality planning	30-6-2021	
29	Risk management planning	01-7-2021	
30	Project monitoring plan	02-7-2021	
31	Detailed scheduling	05-7-2021	
32	Tutorial	06-7-2021	

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No. of Periods	TOPIC	Date	Mode of Delivery
UNIT-III :			
➤ **Software Architecture:**			
➤ **Design:**			
➤ **Software Testing:**			
CO 3: Convert the requirements model into the design model and demonstrate use of software and user interface design principles.			
TB: 1. Software Engineering: A Practitioner's Approach, Roger S. Pressman			
2. Software Engineering principles and practice, W S Jawadekar, TMH			
33	Role of software architecture	07-7-2021	Lecture interspersed with discussions
34	Architecture views	08-7-2021	
35	Components and connector view	09-7-2021	
36	Architecture styles for C & C view	10-7-2021	
37	Documenting architecture design	12-7-2021	
38	Evaluating architectures	13-7-2021	
39	Design concepts	14-7-2021	
40	Function-oriented design	15-7-2021	
41	Object oriented design	16-7-2021	
42	Detailed design, verification metrics	26-7-2021	
41	Software Testing: Introduction	27-7-2021	
42	Verification and Validation	28-7-2021	
43	White box techniques	29-7-2021	
44	Black box techniques	30-7-2021	
45	Tutorial	02-8-2021	

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UNIT-IV :
  ➢ **Introduction:**
  ➢ **Design Patterns-1:**
CO 4 : Illustrate the appropriate design patterns to solve object-oriented design problems.
TB: 1. Design patterns: Elements of Reusable object-oriented software, Erich Gamma, Richard Helm, Ralph Johnson, John Vlissides, Addison-Wesley, 1995.

No. of Periods	TOPIC	Date	Mode of Delivery
46	History and Origin of Patterns	04-8-2021	Lecture interspersed with discussions
47	Design Patterns in MVC	05-8-2021	
48	Describing Design Patterns,	06-8-2021	
49	How Design Patterns Solve Design Problems,	07-8-2021	
50	Selecting a Design Pattern	10-8-2021	
51	Using a Design Pattern	11-8-2021	
52	**Design Patterns-1:** Creational, Abstract	12-8-2021	
53	Factory-Builder	13-8-2021	
54	Factory Method	16-8-2021	
55	Prototype-Singleton	17-8-2021	
56	Tutorial	23-8-2021	

UNIT-V :
  ➢ **Design Patterns-2:**
  ➢ **Design Patterns-3:**
CO 5: Apply structural patterns to solve design problems.
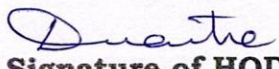 Evaluate the design solutions by using behavioral patterns.

57	**Design Patterns-2:** Structural Patterns: Adapter	24-8-2021	Lecture interspersed with discussions
58	Bridge	25-8-2021	
59	Composite	26-8-2021	
60	Decorator	27-8-2021	

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61	Façade	28-8-2021	Lecture interspersed with discussions
62	Flyweight	31-8-2021	
63	Proxy	01-9-2021	
64	Design Patterns-3: Behavioral Patterns	02-9-2021	
65	Chain of Responsibility	03-9-2021	
66	Command-Interpreter	04-9-2021	
67	Iterator-Mediator	06-9-2021	
68	Memento, Observer	07-9-2021	
69	State, Strategy,	08-9-2021	
70	Template Method, Visitor	09-9-2021	

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TENTATIVE LESSON PLAN(MC2024)

Course Title : DATA WAREHOUSING AND MINING				
Section : MCA	Date : 10/5/21		Page No : 01 of 03	
Revision No : 00	Prepared By : Ms . P.USHA SRI		Approved By : HOD	

Tools: Black board, PPTs

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT –I INTRODUCTION **CO1::Understand the basics of types of data, quality of data, suitable techniques required for preprocessing and measures required to perform data analysis** **TB 1: Introduction to DataMining, Tan, Steinbach and Vipin Kumar, PearsonEducation,2016**			
1.	Introduction to Data Mining		
2.	Types of Data		
3.	Data Quality		
4.	Data Processing	From 17/05/21 To 31/05/21	Lecture interspersed with discussions
5.	Measures of Similarity and Dissimilarity		
6.	ExploringData:DataSet		
7.	SummaryStatistics		
8.	Visualization		
9.	DataWarehouse		
10.	OLAPand multi dimensional dataanalysis		
11.	**Tutorial**		
UNIT -IICLASSIFICATION **CO2::Describe the need of classification, identify suitable technique(s) to perform classification, model building and evaluation** **TB: Data Mining: Concepts and Techniques, 2ndEdition, Jiawei Han and Micheline Kamber, ELSEVIER**			
12.	Basic concepts		
13.	Decision trees and model evaluation: General approach for solving a classification problem		Lecture interspersed with discussions
14.	Decision tree induction		
15.	Model over fitting :due to presence of noise ,lack of representation samples	From 1/06/21 To 15/06/21	
16.	Evaluating the performance of classifier		
17.	Nearest neighborhood classifier		
18.	Bayesian classifier		
19.	Support vector machines: Linear SVM		
20.	Separable and Non separable case		
21.	**Tutorial**		

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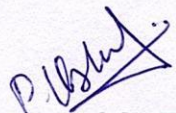Department of Master of Computer Applications

UNIT –III ASSOCIATION ANALYSIS

CO3:: Identify the requirements and usage of association rule mining on categorical and continuous data.

TB: IntroductiontoDataMining,Tan,SteinbachandVipinKumar, PearsonEducation,2016

22.	Problem definition		
23.	Frequent Itemset generation		
24.	Rule generation		
25.	Compact generation of frequent itemsets	From 16/06/2021 To 10/07/2021	
26.	FP-Growth Algorithms		
27.	Handling categorical continuous attributes		
28.	Concept hierarchy		Lecture interspersed with discussions
29.	Sequential ,sub graph patterns		
30.	**Tutorial**		

UNIT - IV   CLUSTERING

CO 4::Compare and Identify suitable clustering algorithm(s)(apply with opensource tools),interpret, evaluate and report the result

TB: Introduction to DataMining, Tan, Steinbach and VipinKumar, PearsonEducation,2016

No. of Periods	TOPIC	DATE	Mode of Delivery
31.	Overview		
32.	K-Means		
33.	Agglomerative hierarchical clustering		
34.	DBSCAN	From 13/07/21 To 30/07/21	
35.	Cluster Evaluation: Overview		Lecture interspersed with discussions
36.	Unsupervised Cluster evaluation using cohesion and separation using Proximity matrix		
37.	Scalable Clustering algorithm		
38.	**Tutorial**		

UNIT V – WEB DATA MINING

CO5:: Describe the requirements and the need of webmining
TB:Data Mining: Concepts and Techniques, 2[nd]Edition, Jiawei Han and Micheline Kamber, ELSEVIER

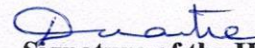|			
39.	Introduction		
40.	Web terminology and characteristics	From 31/07/21 To 13/08/21	
41.	Web content mining		Lecture interspersed with discussions
42.	Web usage mining		
43.	Web structure mining		
44.	Search engines: Characteristics		

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45.	Functionality			
46.	Architecture			
47.	Ranking webpages			
48.	Enterprise search			
49.	**Tutorial**			

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TENTATIVE LESSONPLAN

TENTATIVE LESSONPLAN: MC2025A

Course Title: NOSQL DATA BASE			
Section : MCA	Date : 31/05/2021		Page No : 01 of 03
Revision No : 00	Prepared by: E. NAGARAJU		Approved by : HOD

Tools: PPTs, MS Teams

UNIT 1: Introduction to NoSQL: Definition And Introduction, Sorted Ordered Column-Oriented Stores, Key/Value Stores, Document Databases, Graph Databases, Examining Two Simple Examples, Location Preferences Store, Car Make And Model Database, Working With Language Bindings.

No. of periods	TOPIC	Date	Mode of Delivery
1.	Introduction to NoSQL	31/05/2021	
2.	Definition And Introduction of NSQL	01/06/2021 to 04/06/2021	
3.	Sorted Ordered Column-Oriented Stores	07/06/2021 to 09/06/2021	Lecture interspersed online classes with MS Teams App
4.	Key/Value Stores, Document Databases, Graph Databases	11/06/2021	
5.	Examining Two Simple Examples, Location Preferences Store	12/06/2021 to 14/06/2021	
6.	Car Make And Model Database	15/06/2021 to 17/06/2021	
7.	Working With Language Bindings	18/06/2021 to 20/06/2021	
8.	TUTORIAL CLASSES	21/06/2021	

UNIT 2: Interacting with NoSQL: If NoSql Then What, Language Bindings For NoSQL Data Stores, Performing Crud Operations, Creating Records, Accessing Data, Updating And Deleting Data

No. of periods	TOPIC	Date	Mode of Delivery
9.	Interacting with NoSQL: If NoSql Then What	22/06/2021	
10.	Language Bindings For NoSQL Data Stores	23/06/2021	Lecture interspersed online classes with MS Teams App
11.	Performing Crud Operations	25/06/2021 to 26/06/2021	
12.	Creating Records, Accessing Data, UpdatingData And Deleting Data	28/06/2021 to 30/06/2021	
13.	Tutorial Class	02/07/2021	

UNIT 3: NoSQL Storage Architecture: Working With Column-Oriented Databases, Hbase Distributed Storage Architecture, Document Store Internals, Understanding Key/Value

Stores In Memcached And Redis, Eventually Consistent Non-Relational Databases.

No. of periods	TOPIC	Date	Mode of Delivery
14.	NoSQL Storage Architecture	03/07/2021	Lecture interspersed online classes with MS Teams App
15.	Working With Column-Oriented Databases	05/07/2021 to 07/07/2021	
16.	Hbase Distributed Storage Architecture	09/07/2021 to 10/07/2021	
17.	Document Store Internals	12/07/2021	
18.	Understanding Key/Value Stores In Memcached	13/07/2021	
19.	Understanding Key/Value Stores In Redis	14/07/2021	
20.	Eventually Consistent Non-Relational Databases.	16/07/2021	
21.	Tutorial class	17/07/2021	

UNIT 4: NoSQL Stores: Similarities Between Sql And Mongodb Query Features, Accessing Data From Column-Oriented Databases Like Hbase, Querying Redis Data Stores, Changing Document Databases, Schema Evolution In Column-Oriented Databases, Hbase Data Import And Export, Data Evolution In Key/Value Stores.

No. of periods	TOPIC	Date	Mode of Delivery
22.	NoSQL Stores: Similarities Between Sql And Mongodb Query Features	26/07/2021 to 27/07/2021	Lecture interspersed online classes with MS Teams App
23.	Accessing Data From Column-Oriented Databases Like Hbase	28/07/2021 to 30/07/2021	
24.	Querying Redis Data Stores, Changing Document Databases	02/08/2021 to 07/08/2021	
25.	Schema Evolution In Column-Oriented Databases	09/08/2021 to 11/08/2021	
26.	Hbase Data Import And Export, Data Evolution In Key/Value Stores	16/08/2021 to 18/08/2021	
27.	Tutorial class	20/08/2021 to 23/08/2021	

UNIT 5: Indexing and Ordering Data Sets : Essential Concepts Behind A Database Index, Indexing And Ordering In Mongodb, Creating and Using Indexes In Mongodb, Indexing And Ordering In Couchdb, Indexing In Apache Cassandra.

No. of periods	TOPIC	Date	Mode of Delivery
28.	Indexing and Ordering Data Sets : Essential Concepts Behind A Database Index	24/08/2021 to 25/08/2021	Lecture interspersed
29.	Indexing And Ordering In Mongodb	27/08/2021 to 28/08/2021	
30.	Creating and Using Indexes In Mongodb	30/08/2021 to	

		01/09/2021	online classes with MS Teams App
31.	Indexing And Ordering In Couchdb	03/09/2021 to 04/09/2021	
32.	Indexing In Apache Cassandra	06/09/2021 to 08/09/2021	
33.	Tutorial class	09/09/2021	

TEXT BOOKS:

1) Shashank Tiwari, Professional NoSQL, Wrox Press, Wiley, 2011, ISBN: 978-0-470-94224-6

2) Pramod Sadalage and Martin Fowler, NoSQL Distilled, Addison-Wesley Professional, 2012

Signature of the faculty

Signature of the HOD

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