

B. M. S. INSTITUTE OF TECHNOLOGY AND MANAGEMENT YELAHANKA, BANGALORE-064 Department of Computer Science & Engineering

COURSE FILE CONTENTS

- 1. Calendar of Events
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- 8. List of Students
- 9. Internal Test Papers
- 10.Scheme of Evaluation
- 11.CO PO Analysis-Excel sheet
- 12.Articulation for unattained PO's
- 13. Three blue books, copy of assignment/Poster/PBL/reports etc

					BMS Institute of Technology & Management Avalahalli, Yelhanka, Bangalore - 560064 DEPT. OF COMPUTER SCIENCE AND ENGINEERING									
							1		Cale	nder of Events 2018-19 (Odd Semester)				
Month	Week	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Workin g Days	Events	Holidays			
	1 st			1	2	3	4	5	4	1 st August Commencement of 3rd Semester , 5 th Semester B.Tech 1st August Commencement of 1st, 3rd Semester MCA/M.Tech 2nd - 7th August Open Course for 3rd and 5th Semester				
ŗ	2 nd	6	7	8	9	10	11	12	6	6th August Commencement of 7th Semester B.Tech				
Augu	3 rd	13	14	15	16	17	18	19	5	13th August - 1st September Induction Programme for 1st Sem B.Tech/M.Tech/MCA	15th August Independence Day			
	4 th	20	21	22	23	24	25	26	5	20th August Project Orientation (Final Year) 25th August Academic Monitoring 1 (Verification of Academic Documents)	22nd August			
	5 th	27	28	29	30	31				29th August Numerican of Area of Domain of Final Year Projects	Dakriu			
	5 th						1	2	6	1st Sepetember Project Based Learning-1 (Batch Creation by Class Teacher)				
	6 th	3	4	5	6	7	8	9	5	4th September Allocation of Project Guides for Final Year Project 4th September Project Based Learning-1 (Guide Allocation)				
ember	7 th	10	11	12	13	14	15	16	5	10 th , 11 th & 12 th September IA -1 (3rd , 5 th , & 7 th Semester) 15th September Academic Monitoring-2	13th September Ganesh Chaturthi			
Sept	8 th	17	18	19	20	21	22	23	5	17th September Project Based Learning - Synopsis Submission 20th September - Entry of IA Marks in BIMS, 22nd September Dispatch of Progress Report (Sending of SMS), 20th September Pre Assesment of Final	21st September Last Day Of Muhharam			
	9 th	24	25	26	27	28	29	30	6	24th September to 29th September Remedial Classes for Weak Students 24th September Academic Monitoring-3				
										25th September Faculty Appraisal by Students -1 3rd October Submission Of Project Abstract				
	10 th	1	2	3	4	5	6	7	5	6th October Parent Teacher Meeting Semaphore - 2018	2nd October Gandhi Jayanti			
	11 th	8	9	10	11	12	13	14	5	11 th , 12 th & 13 th October IA - 2 (3rd, 5 th , & 7 th Semester), IA -1 (1st Semester) 10th October Academic Monitoring - 4 (Verification of documents and	8th October Mahalaya Amavasya			
Octobe	12 th	15	16	17	18	19	20	21	4	17th October Review Meeting by SPARC 20th October Entry of IA-2 Marks in BIMS, Dispatch of Progress Report	18th October Ayudha Pooja 19th October			
										24th September to 29th September Remedial Classes for Weak Students	Viiavadashami 24th October			
	13 th	22	23	24	25	26	27	28	5	25th October Academic Monitoring - 5 (Announcement of status of Attendence) 20th October Onen Day (College Level PDL Exhibition)	Valmiki Jayanthi			
	14 th	29	30	31					5	31st October Final Evaluation of Final Year Projects	1st November			
	14 th 14 th	29	30	31	1	2	3	4	5	10th Neurophysics Andersis Manitarian C. (Varification of documents and	1st November Rajyotsava Day			
er	14 th 14 th 15 th	29 5	30 6	31 7	1 8	2 9	3 10	4 11	5	23th October Open Day (conege Lever 15): Exhibition) 31st October Final Evaluation of Final Year Projects 10th November Academic Monitoring - 6 (Verification of documents and counseling) colls of the set of t	1st November Rajyotsava Day			
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BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT YELAHANKA – BANGALORE - 64 DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING INDIVIDUAL TIME TABLE FOR THE ACADEMIC YEAR 2018 – 19(ODD)

Name: Ms. Ambika G NSubject: DMS, ADBMS, DMSSemester: III -Diploma	III-C, I M.TECH, Class room: BSN-CR-304, BSN-TR-401, BSN TR-402 W.E.F:10-10-2018
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	I 8.30 – 9.30	II 9.30 - 10.30	10. 30 – 10.50	III 10.50 – 11.50	IV 11.50 – 12.50	12.50 - 1.45	V 1.45 – 2.40	VI 2.40 – 3.35	VII 3.35 – 4.30
MONDAY		ADBMS		CPL LA (CAD LA)	AB- G2 B MECH)			DMS	-
TUESDAY	UESDAY DMS						DMS (III DIP)		
WEDNESDAY	DBMS (8.30-	LAB-A2 11.30)	TEA		ADBMS	LUNCH BREAK			
THURSDAY	DMS		BREAK	ADBMS			Ic	B	
FRIDAY		DMS	т. Эн	DMS (III DIP)					
SATURDAY		ADBMS	-	-		1.			

Total Workload(2T+3L)

18 Hours

Time table officer

28512/10

DE TECHNOLOGY & E		LESSON PLAN	Date: 1/09/2018
	Sub Code & Name		
PENGALURU.Sh	Management Syst		
ನಹಿ ಜ್ಞಾನೇನ ಸದೃಶಂ 🚽	Semester : I	Program: M.Tech CSE	
	Academic Year:	2018-19	
	Lesson Plan Auth	or(s) Ambika G.N	

Prerequisite: The student must be aware of basic concepts of database systems.

Course Objective:

- Define parallel and distributed databases and its applications.
- Show applications of Object Oriented database
- Explain basic concepts, principles of intelligent databases.
- Utilize the advanced topics of data warehousing and mining .
- Infer emerging and advanced data models
- Extend knowledge in research topics of databases.

Course Content

Module -1	Contact
Paview of Palational Data Model and Palational Database Constraints: Palational	HOULS
model concepts: Relational model constraints and relational database schemas: Undata	10 Hours
model concepts, Relational model constraints and relational database sciencias, Opdate	
operations, anomanes, dealing with constraint violations, Types and violations. Overview	
of Object-Oriented Concepts – Objects, Basic properties. Advantages, examples, Adstract	
data types, Encapsulation, class hierarchies, polymorphism, examples.	
RBT: L1, L2, L3	
Module -2	
Object and Object-Relational Databases: Overview of OOP; Complex objects; Identity,	10 Hours
structure etc. Object model of ODMG, Object definition Language ODL; Object Query	
Language OQL; Conceptual design of Object database. Overview of object relational	
features of SQL; Object-relational features of Oracle; Implementation and related issues for	
extended type systems; syntax and demo examples. The nested relational model. Overview	
of C ++ language binding.	
RBT: L1, L2, L3	
Module – 3	
Parallel and Distributed Databases: Architectures for parallel databases; Parallel query	10 Hours
evaluation; Parallelizing individual operations; Parallel query optimizations; Introduction to	
distributed databases: Distributed DBMS architectures: Storing data in a Distributed	
DBMS: Distributed catalog management: Distributed Ouery processing. Undating	
distributed data: Distributed transactions: Distributed Concurrency control and Recovery	
DRT. I 1 I 2 I 2	
KB1: L1, L2, L3	
Module-4	

Data Warehousing. Decision Support and Data Mining: Introduction to decision	10 Hours					
support: OLAP. multidimensional model: Window queries in SOL: Finding answers	10 110 415					
quickly: Implementation techniques for OLAP: Data Warehousing: Views and Decision						
support. View materialization. Maintaining materialized views. Introduction to Data						
Mining: Counting co-occurrences: Mining for rules: Tree-structured rules: ROC and CMC						
Curves: Clustering: Similarity search over sequences: Incremental mining and data streams:						
Additional data mining tasks						
RRT. I 1 1 2 13						
Madula 5						
	10.77					
Ennanced Data Models for Some Advanced Applications: Active database concepts and	10 Hours					
triggers; Temporal, Spatial, and Deductive Databases – Basic concepts. More Recent						
Applications: Mobile databases; Multimedia databases; Geographical Information Systems;						
Genome data management.						
RBT: L1, L2, L3						
Question paper pattern:						
The question paper will have ten questions.						
There will be 2 questions from each module.						
Each question will have questions covering all the topics under a module						
The students will have to answer 5 full questions selecting one full question from each module						
The stadents will have to answer 5 full questions, selecting one full question from each module.						
1 Elmosri and Navatha: Fundamentals of Database Systems, Dearson Education, 2012						
2. Paghu Pamakrishnan and Johannes Cabrke: Database Management Systems, 3rd Edition	n					
2. Ragnu Ramaki isinian and Johannes Oenike. Database Management Systems, 510 Edition McCrow Hill 2012	.1,					
мсонаж-піп, 2015.						
Reference Books:						
1. Abraham Silberschatz, Henry F. Korth, S. Sudarshan: Database System Concepts, 6th Edi	ition,					
McGraw Hill, 2010.	<i>*</i>					

			Course Sched	ule – week wise		
WEEK	DAYS	UNIT	MAIN TOPICS	SUB TOPICS	DELIVERY METHOD	BOOKS
1	1	1	Review of Relational Data	Relational model concepts	PPT	R1
	2		Model and Relational	Relational model concepts	PPT	R1
	3		Database Constraints	Relational model constraints and relational database schemas	PPT	R1
	4			Relational model constraints and relational database schemas	РРТ	R1
2	1	1	Review of Relational Data Model and	Update operations, anomalies, dealing with constraint violations	PPT	R1
	2		Relational	Types and violations	PPT	R1
	3		Database Constraints	Object-Oriented Concepts	PPT	R1
	4			Objects, Basic properties	PPT	R1
3	1	1	Review of Relational Data	Abstract data types Encapsulation	PPT	R1
	2		Model and Relational Database Constraints	Class hierarchies, polymorphism, examples	Flipped Mode	R1
	3	2	Object and Object- Relational	Overview of OOP; Complex objects	PPT	R1
	4		Databases	Identity, structure	PPT	R1
4	1	2	Object and Object- Relational	Object model of ODMG	Flipped Mode	R1
	2		Databases	Object definition Language ODL; Object Query Language OQL	PPT	R1
	3			Object definition Language ODL; Object Query Language OQL	PPT	R1
	4			Conceptual design of Object database, Overview of object relational features of SQL; Object-relational features of Oracle	PPT	R1
			First I	nternal		
5	1	2	Object and Object- Relational Databases	Implementation and related issues for extended type systems	PPT	R1
	2			syntax and demo examples, The nested relational model. Overview of C++ language binding	PPT	R1

	3	3	Parallel and Distributed	Architectures for parallel databases	PPT	R1
	4		Databases	Parallel query evaluation: Parallelizing	PPT	R1
				individual operations		
6	1	3	Parallel and	Parallel query	Flipped	R1
			Distributed Databases	evaluation; Parallelizing individual operations	Mode	
	2			Parallel query optimizations	PPT	R1
	3			Introduction to	PPT	R 1
				distributed databases;		
				Distributed DBMS		
	4			Introduction to	PPT	R 1
	-			distributed databases;	111	K1
				Distributed DBMS		
				architectures		
7	1	3	Parallel and	Storing data in a	PPT	R1
			Distributed	Distributed DBMS;		
			Databases	management		
	2			Distributed Query	PPT	R1
				processing; Updating		
				distributed data;		
				Distributed transactions;		
				control and Recovery		
	3	4	Data Warehousing.	Introduction to	РРТ	R 1
	5	•	Decision Support	decision	111	K 1
			and Data Mining	support; OLAP,		
				multidimensional		
				queries in SOL		
	4			Finding answers	РРТ	R1
				quickly; Implementation		
				techniques for OLAP		
8	1	4	Data Warehousing,	Data Warehousing;	PPT	R1
	2	1	and Data Mining	View materialization	РРТ	R 1
	<i>–</i>			Maintaining	111	IX1
				materialized views		
	3			Introduction to Data	PPT	R1
				Mining; Counting co-		
	4			Mining for rules: Tree	DDT	D 1
	4			structured rules: ROC	rr I	K1
				and CMC		
			Second	Internal		
9	1	4	Data Warehousing, Decision Support	Clustering; Similarity search over sequences	PPT	R1
	2	1	and Data Mining	Incremental mining and	Flipped	R1
				data streams; Additional	Mode	
				data mining tasks		D1
	3	5			Flipped	KI
		ļ			Mode	D 1
	4				PPT 1	K1

10	1	5	Enhanced Data Models for Some Advanced Applications	Active database concepts	PPT	R1
	2			Active database concepts	PPT	R1
	3	-		triggers	PPT	R1
	4			triggers	PPT	R1
11	1	5	Enhanced Data Models for Some	Temporal Databases	РРТ	R1
	2		Advanced Applications	Spatial Databases	PPT	R1
	3			Deductive Databases	PPT	R1
	4			Deductive Databases	PPT	R1
12	1	5	Enhanced Data Models for Some	Mobile databases	РРТ	R1
	2		Advanced Applications	Mobile databases	РРТ	R1
	3			Multimedia databases	PPT	R1
	4			Geographical Information Systems; Genome data management	PPT	R1
			Third	Internal		

Reference Books:

- Elmasri and Navathe: Fundamentals of Database Systems, Pearson Education, 2013.
 Raghu Ramakrishnan and Johannes Gehrke: Database Management Systems, 3rd Edition, McGraw-Hill, 2013.

Course Delivery Plan

Week	-	1	2	2		3	4	-	5		б	7	7	8	3	(9	1	0	1	1	1	2	13	14	15	16
	Ι	II	Ι	II	Ι	II	I II	Ι	ΙΙ	Ι	II	Ι	Π	ΙIΙ	ΙIΙ	I II	I II										
Units			1				2				_			3							4					5	-
	◀									-	•						•										

Course Unitization for Internals and Semester End Examination

			Teaching	ľ	No. of Questi	ons in	
Part		Chapter	Hours	Internals I	Internals II	Compensatory Internals	
Unit 1	1	Review of Relational Data Model and Relational Database Constraints	10	4+1*			
Unit 2	2	Object and Object-Relational Databases	10	2+1*	1		
Unit 3	3	Parallel and Distributed Databases	10		3+1*		
Unit 4	4	Data Warehousing, Decision Support and Data Mining	10		2+1*	2+1*	
Unit 5	5	Enhanced Data Models for Some Advanced Applications	10			4+1*	

*Represents Innovative and Case Study questions from the units

	neme
Assessment	Weightage in Marks
3 IA test	50
Best two IA average	50 (20)
Assignment	20
Total	40

IA Scheme

		-	Å
ADVANCES IN DATA BAS [As per Choice Based Ch	SE MANAGEMENT S redit System (CBCS) sc	YSTEMS heme]	
(Effective from the a	cademic year 2018 - 201 MESTER – I	9)	
Subject Code	18SCE252 / 18SCS13 / 18SIT14 / 18SSE151	IA Marks	40
Number of Contact Hours/Week	04	Exam Marks	60
Total Number of Contact Hours	50	Exam Hours	03
CR	EDITS – 04		
Course objectives: This course will enable stude	nts to		
 Define parallel and distributed databases Show applications of Object Oriented databases Explain basic concepts, principles of int 	s and its applications. atabase elligent databases.		
 Utilize the advanced topics of data ware Infer emerging and advanced data mode Extend knowledge in research topics of 	housing and mining . ls		
Extend knowledge in research topics of Module 1	ualabases.		Contact
module I			Hours
Review of Relational Data Model and Rela	ational Database Cons	traints: Relational	10 Hours
operations, anomalies, dealing with constraint of Object-Oriented Concepts – Objects, Basic p data types, Encapsulation, class hierarchies, poly	violations, Types and vi properties. Advantages, ymorphism, examples.	olations. Overview examples, Abstract RBT: L1, L2, L3	
Module 2			
Object and Object-Relational Databases: Ov structure etc. Object model of ODMG, Object Language OQL; Conceptual design of Object features of SQL; Object-relational features of O extended type systems; syntax and demo examp of C++ language binding;	erview of OOP; Comple t definition Language O t database. Overview o racle; Implementation an oles, The nested relationa	x objects; Identity, DL; Object Query f object relational d related issues for l model. Overview	10 Hours
		RBT: L1, L2, L3	
Parallel and Distributed Databases: Architece evaluation; Parallelizing individual operations; I distributed databases; Distributed DBMS arc DBMS; Distributed catalog management; I distributed data; Distributed transactions; Distributed	etures for parallel databa Parallel query optimization hitectures; Storing data Distributed Query proputed Concurrency contro	ses; Parallel query_, ons; Introduction to in a Distributed cessing; Updating of and Recovery. RBT: L1, L2, L3	\$_10 Hours
Module 4	Data Mining Introdu	uction to decision	10 Hours
support; OLAP, multidimensional model; Wi quickly; Implementation techniques for OLAP support, View materialization, Maintaining m Mining; Counting co-occurrences; Mining for r Curves; Clustering; Similarity search over seque Additional data mining tasks.	indow queries in SQL; ; Data Warehousing; V materialized views. Intru ules; Tree-structured rule mces; Incremental mining	Finding answers iews and Decision roduction to Data es; ROC and CMC g and data streams;	10 110013
Module 5			L
Module 5			

-8-

Enhanced Data Models for Some Advanced Applications: Active database concepts and 10 Hours triggers; Temporal, Spatial, and Deductive Databases – Basic concepts. More Recent Applications: Mobile databases; Multimedia databases; Geographical Information Systems; Genome data management.

RBT: L1, L2, L3

Course Outcomes

The students should be able to:

- Select the appropriate high performance database like parallel and distributed database
- Infer and represent the real world data using object oriented database
- Interpret rule set in the database to implement data warehousing of mining
- Discover and design database for recent applications database for better interoperability

Question paper pattern:

The question paper will have ten questions.

There will be 2 questions from each module.

Each question will have questions covering all the topics under a module. The students will have to answer 5 full questions, selecting one full question from each module.

Text Books:

- 1. Elmasri and Navathe: Fundamentals of Database Systems, Pearson Education, 2013.
- Raghu Ramakrishnan and Johannes Gehrke: Database Management Systems, 3rd Edition, McGraw-Hill, 2013.

Reference Books:

 Abraham Silberschatz, Henry F. Korth, S. Sudarshan: Database System Concepts, 6th Edition, McGraw Hill, 2010.

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BMS INSTITUTE OF TECHNOLOGY, YELAHANKA, BANGALORE-64

The list of students provisionally admitted to I year Computer Science (M.Tech) for the academic year 2018-19 :

Batch: 2018-19	SEM: I	
PG COURSE : COMPL	JTER SCIENCE AND ENGINEERING	J
	PROVISIONAL LIST	

SL. NO	USN	NAME OF THE CANDIDATE
1.	1BY18SCS01	BHAGYASHREE A V
2.	1BY18SCS02	CHAITHRASHREE H S
3.	1BY18SCS03	DIVYASHREE S
4.	1BY18SCS04	FASIHA KAUSAR
5.	1BY18SCS05	KAVERI T HOMBAL
6.	1BY18SCS06	NAVEENKUMAR K V
7.	1BY18SCS07	P PRAJWALA
8.	1BY18SCS08	PURUSHOTHAM NAIDU V
9.	1BY18SCS09	RAJESHWARI N
10.	1BY18SCS10	RAMYA P L
11.	1BY18SCS11	RANJINI N
12.	1BY18SCS12	SNEHA S
13.	1BY18SCS13	SRIVATSA RAJU S
14.	1BY18SCS14	SUDHANSHU GUPTA
15.	1BY18SCS15	VIJAYALAKSHMI HOLIMATH

PRINGIEIRAL BMS Inst.of Tech.& Mgast. Doddaballapur Main Roda Avalanalli,Yelahanka, B'lore-64



BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT YELAHANKA – BENGALURU – 64 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FIRST INTERNAL ASSESSMENT TEST, NOVEMBER - 2018 (CBCS)

Subject: ADBMSSubject CodMax. Marks : 30Date: 20-1

Subject Code: 18SCS13 Date: 20-11 - 2018 Semester : LMtech (CSE) Time: 9:30 AM to 11.00 AM

Answer FIVE full questions choosing 3 questions from Part A. Part B is compulsory.

	PartA		
1	Describe the violation of constraints with respect to insert and Update operations.	6 Marks	(CO1) (K2)
	OR		
2	a) Show the characteristics of Relations.	3 Marks	(CO2) (k3)
8	b) Illustrate three main types of constraints in a relational model with suitable examples.	3 Marks	
湖海市	「「「「「「「」」」「「」」」「「」」」「「」」」「「」」」」「「」」」」「「」」」」	Charles and the second	(((0)))
3	Write the Primary characteristics' of an OID. Interpret its advantages and disadvantages.	6 Marks	(12)
	OR		
4	Write an example how OID concept is different from Primary key concept of Relational Model.	6 Marks	(CO2) (k3)
1000560			
5	Show the mapping of EER schema into ODL schema with brief explanation.	6 Marks	(CO2) (k3)
	OR		
6	Write the Comparison between Object relational features of SQL and Object relational features of Oracle	6 Marks	(CO3) (k3)
7	Use the types in ORDB and describe with an example how do you create User defined Types and a relational table to the types.	6 Marks	(CO4) (IC3)
国际内			
8	Identify the concepts used in Bank Schema and explain the nested relational model of the same.	6 Marks	(K4)
			R. Hallon
Stu	Course Outcomes (COs) dents will be able to		
CO	1 Describe parallel and distributed databases and its applications. (K2)		
CO	2 Illustrate basic concepts, principles of intelligent databases. (K3)		
CO:	3 Use the advanced topics of data warehousing and mining.(K3)		
CO	4 Discover knowledge in research topics of databases(K3)		
CO	5 Analyze the given problem and solve using the concepts of ADBMS (K4)		
	Bloom's Taxonomy		
K1-	Remembering, K2 - Understanding, K3 - Applying, K4 - Analyzing, K5 - Evaluating, K6 - Crea	nting	

lone,

Subject !- Advances in DBMB 21/11/2018 10de !- 1836313 Scheme :- first Internal Asserment The operations of relationed model can be. Categorized into retrievals and updates. The relationed Algebra operations, which can be. Used to Spring retrievals. 3 marks ≥ <u>x</u> ! insut ∠' a', `F', `abc', NULL, '123456', '657', 2000, 4 > into-) The insection violate the entity integetity iconstraint. So Rt is nejected. employee. Similarly give the Examples for Delete and update operations <u>3 Marles</u> 2 a characteris of Relations (i) ordering the type in a relation 2x: Entity Student has a norme, 33N, age, dept. 30 on <u>3 marks</u> (2) ordning value with in the tuple. y altunature defin of relation sv 3 values and NULLE in the relation

(6) O Inhunt or Implicit 3 mailes @ Schema baud or explicit 3 Semantic or application baud constraint volth brief Explanation Definishion of Object Identifier 2 2 marks 010: charactersties <u>Dinardes</u> C i'mmitable (\mathfrak{D}) OID can be und only once B Advantages of 010 Efficient 2 marks Fait Independent of content \odot Ì B (h). Invisible Disadvantages 2 Marks (a). O primary key is a part of the table row. → DID is meta infolmation obout the Object <u>C_M</u> 6 Marles -> A rejevenue to the infolmation in the row moves around wherever you move the thing. A rejuente to an OID has to be updated When you Move the thing. with examples

(5) An ODL has ODMS (object data Managements 3/ms) ODMS, Neet Some of the needs of more complix applications -> <u>Spuity</u>: Structure of complise objects operations that can be applied to this bljuts. _ G mailes Origins in 00 programming languages objuts has two components > State (value) and behaviour (operations) 2 -> operation is defined in two parts Signature (interjoue) and implementation; (method) gpel: OPL collection type !. Bag J Array used to define Object Bag J Array types for a particula List Dictionary database application. Object Relational Jeatures of SQL (\mathfrak{G}) Objut Identifies for referencing Encapsulation Type constructors \odot (2)Encap Sulation (\mathfrak{Z}) Inheritance 4. Object oriented Relational Jeatures of oracle Ś

Multivalued att ribuites 2x CREATE TYPE PH-TYPE A'S OBJECT (phno Number); 3 Marks for 2 Examples Mething of att & chilles !- " Soo 3 object view Lauge objut storage (Y) Index data tables (5) G Partition table and Index use dyined data can be created ORDB Lypes now type and away CREATE TYPE ROWTYPE-name AS [ROW] 6 mailie The keywoord Row is optional Create Type, ADDRES - Type AS (Shut vauchen (10); einy aquehou (6); cueate type ph-type as object (phno, Number) criate type philist AS A TABLE or ph-hype write Bank Branch Shima with a neat diagram), 6M4 Bno Bnom B RANCH ACLOUNTE



BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT YELAHANKA – BENGALURU – 64 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SECOND INTERNAL ASSESSMENT TEST, DECEMBER - 2018 (CBCS)

Subject: ADBMS Max. Marks : 30 Subject Code: 18SCS13 Date: 20- 12 - 2018 Semester : I M.Tech (CSE) Time: 9:30 AM to 11.00 AM

Answer FIVE full questions choosing 3 questions from Part A. Part B is compulsory.

	PartA		
1	Write the issues that motivate the data distribution.	6 Marks	(CO2) (K3)
	OR		
2	Show with an example how do you parallelize the individual operations?	6 Marks	(CO3) (k3)
AND UN		ing Laboration	的复数形式
3.	Illustrate Semi Joins and Bloom Joins in distributed database.	6 Marks	(CO3) (k3)
	OR		
4	Sketch an Architecture proposed for building parallel DBMS	6 Marks	(CO2) (k3)
		同時間執道	の影響で
5	Write the features of multi-dimensional data model with an example.	6 Marks	(CO3) (k3)
	OR		
6	Relate the classification rules for decision Trees and Illustrate with an example.	6 Marks	(CO3) (k3)
7	Write a Dataflow Network of Operators for executing the join operations parallel in distributed database	6 Marks	(CO3) (K 3)
No.	这些新教学,这些新教学和学校的学校,我们在中国中的教育和教育和教育和教育和教育和教育和教育和教育和教育和教育和教育和教育和教育和教		
8	Differentiate between the data partitioning algorithms and also Point out which is the best data partitioning algorithm.	6 Marks	(CO5) (K4)
認知			No state
Stu	Course Outcomes (COs) dents will be able to	an a	e on of a particular of the particular
CO	1 Describe parallel and distributed databases and its applications. (K2)		
CO	2 Illustrate basic concepts, principles of intelligent databases. (K3)		
CO	3 Use the advanced topics of data warehousing and mining.(K3)		
CO	4 Discover knowledge in research topics of databases(K3)		
CO	5 Analyze the given problem and solve using the concepts of ADBMS (K4)		
	Bloom's Taxonomy		
K1-	Remembering, K2 - Understanding, K3 - Applying, K4 - Analyzing, K5 - Evaluating, K6 - Crea	ating	

hoster,

Subject !- ADBMB 21/12/2018 Code !- 1880313 Scheme !- Second IA increased Avoilability (a) 3 Marly 6 Dishsibuted cuur to data \bigcirc Analysis of dishibuted data (1) incuased pujolmance. @ Sime Join and Blooms. JOIN with Brief explanation of one and the bebove - 3 marks -) Paulioning of data accross rulhiple disks for parallel I/0 Individual relational operations (Eg, Sort, join, agguigation) can be exemted in parallel Ancriel an expressed in high level Language (SDL) 3 marks -) Different Queries can be run in parallel) with Each other. with Examples _____ 3 mailes Differentiale b/w Semi Join & 3 BLOOM JOIN - 6 Mailers

Should remoty S/m Depn !- 3 Marks 2 prounor procenor processor Intercommunication N/W 3 Marle S. hlobal Memory (Disle (Dislc Disk Advantages, Disadvantages -- Features of Multidimensional Data 5 Dishibuted data. Increased availability. Replication Explanation Incualed performance. Brief Data partioning histing 3 marks 6 Marles Explanation 3 mailes

clanification Rules. If part of the rule is called rule anteredut or precondition The THEN part of the rule is called. $\binom{2}{2}$ rule consequent The antecedent part the condition (3) consister of one or more attaibute teits and their teits are dog? cally ANDed The consequent part consists of cleur prediction. 6 Marles Diagram of Network of operators for parallel JOINS - 3 Marks and explanation - 3 Marks Data patrioning Algorithms Round Robin Haching J Explomation 3 Moule 3 Marles Kange baud Pautioning Applications 3 Mailes



Subject: ADBMS

Max. Marks: 30

BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT YELAHANKA – BENGALURU – 64 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

THIRD INTERNAL ASSESSMENT TEST, JANUARY - 2019 (CBCS)

Subject Code: 18SCS13 Date: 22-01 - 2019 Semester : LMtech (CSE) Time: 9:30 AM to 11.00 AM

Answer FIVE full questions choosing 3 questions from Part A. Part B is compulsory.

	PartA		
1	Write the role of metadata repository in data ware house. Illustrate the functions of back end tools and utilities in data warehouse.	6 Marks	(CO2) (k3)
	OR		
2	Produce the steps associated with Knowledge discovery process? Write the important measures for an association rule.	6 Marks	(CO3) (k3)
		1 Startes	
3	Illustrate a window query and produce the significance of it.	6 Marks	(CO4) (k3)
	OR	200	
4	Use the phases of decision tree used to write the induction schema.	6 Marks	(CO3) (k3)
.5	Write the role of metadata repository in data ware house. Illustrate the functions of back end tools and utilities in data warehouse.	6 Marks	(CO3) (k3)
si .	OR	Ť.	
6	Write a note on Multimedia Databases.	6 Marks	(CO3) (k3)
7	Analyze B+ tree index and spatial index; provide the comparison between B+ tree index and spatial index. When would you use a B+ tree index over a spatial index for point data? When would you use a spatial index over a B+ tree index for point data?	6 Mar ks	(CO5) (K4)
A strategy			
8	Infer the Super market database and select the Apriori algorithm to find the frequent item sets.	6 Marks	(CO5) (K4)
	Course Outcomes (COs) Students will be able to		
CO	Describe parallel and distributed databases and its applications. (K2)		
CO2	2 Illustrate basic concepts, principles of intelligent databases. (K3)		
CO:	B Use the advanced topics of data warehousing and mining.(K3)		
CO 4	Discover knowledge in research topics of databases (K3)		
COS	Analyze the given problem and solve using the concepts of ADBMS (K4)		
	Bloom's Taxonomy		
K1-	Remembering, K2 - Understanding, K3 - Applying, K4 - Analyzing, K5 - Evaluating, K6 - Orga	ting	

hole.

Subject :- ADBMS 23/1/2019 code :- 1880813 1 Lem Sheme: Third IA M. Tuh "issues that notivate the data Ð dishs: but on 1) Data Selection 2xplanation Data Hining 2 3 + 3 3 Data cuation mailes (Lì) Evaluation -> Role of metadata Repository en data à vocre House - Inailes 1 -) Discurring the functions of back 2 u names End tools and utilities in data Ju names Walter House boindow functions allow aven to deuta in the records right before and after the the unent rebord. bindow Query: defn - 2 marties 3 -> window function defines a frame or window of rows with a given length avound the invert row. 3 marks 2x !- 3 Marles

Deuision +ru !. is a flowchart like fre structure where douh internal node denotes a test on a attribute cach branch represents an Outcome of the feet 2 marks outlook - Ex 2 moulds Rain Sunny ovaraut YUS Humidiky wind 6 moulis weak Strong Normal High 403 Yes. ND NO Building phone. 2 rializ 2 pruning Phane Deffinition of a Trigger - 2 marks Syntax - 2 marks Example and Signification 5 2 martes

6 Multimedia Databases -> Multimedia DB is a collection of related multimedia deta. MMDB Stores data in the form of text images, graphic animation, audio and 3 mailes video. , 300 , tot, ·mp3, etc 1 E. rayly Explanation Multimedia 3 maules Video pudro 6 mailes Animation



Aprior? Algolithm Apsion: Algsithm is a Algslithm -) which is used to find the frequent 2x:- Market barket analysis of any data. <u>Ornaules</u> " I sidentify the customers who has bought the stems frequently . and Now do you suggest the frequently bought etems. Note: Maules is given baud on the Analysis of Data with SK.



BMSINSTITUTE OF TECHNOLOGY AND MANAGEMENT Avalahalli, Doddaballapur Main Road, Bengaluru – 560064 Department of Computer Science and Engineering

SUBJECT: ADVANCES IN DATABASE MANAGEMENT SYSTEM (18SCS13)

ВАТСН	2018 SEM I						
SUBJECT	ADVANCES IN DATABASE MANAGEMENT SYSTEM.						
FACULTY INCHARGE	AMBIKA G.N						

COURSE OUTCOMES	ATTAINMENT - I A	ATTAINMENT - VTU	OVERALL ATTAINMENT
C01	3.00	0.00	1.20
CO2	3.00	0.00	1.20
CO3	3.00	0.00	1.20
CO4	3.00	0.00	1.20
CO5	3.00		1.20

CO-PO Mapping

CO'S	CO RESULT	PO1	PO2	PO3	PO4	PO5	PO6
CO1: Summarize parallel and distributed databases and its applications. (K2)	3			*			
CO2: Illustrate basic concepts, principles of intelligent databases. (K3)	3			1			
CO3: Use the advanced topics of data warehousing and mining.(K3)	3	-		2			
CO4: Discover knowledge in research topics of databases(K3)	3			2			
CO5: Analyze the given problem and solve using the concepts of ADBMS (K4)	3	-	2	3	3	2	3



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CO1: Summarize parallel and distributed databases and its applications. (K2)1.2000000CO2: Illustrate basic concepts, principles of intelligent databases. (K3)1.20000.400	CO'S	CO RESULT	PO1	PO2	PO3	PO4	PO5	PO6	
CO2: Illustrate basic concepts, principles of intelligent databases. (K3)1.20000.400CO3: Use the advanced topics of data1.200000.80	CO1: Summarize parallel and distributed databases and its applications. (K2)	1.20	0	0	0	0	0	0	
CO3: Use the advanced topics of data 1.20 0 0.8	CO2: Illustrate basic concepts, principles of intelligent databases. (K3)	1.20	0	0	0.4	0	0	0	
warehousing and mining.(K3)	CO3: Use the advanced topics of data warehousing and mining.(K3)	1.20	0	0	0.8	0	0	0	
CO4: Discover knowledge in1.20000.8000research topics of databases(K3)00000	Discover knowledge in research topics of <u>databases(K3)</u>	1.20	0	0	0.8	0	0	0	
Analyze the given problem and solve using1.2000.81.21.20.81.2the concepts of ADBMS (K4)1.2000.81.21.20.81.2	Analyze the given problem and solve using the concepts of ADBMS (K4)	1.20	0	0.8	1.2	1.2	0.8	1.2	
Final Attainment 0 0.8 0.8 1.2 0.8 1.7	Final Att	ainment	0	0.8	0.8	1.2	0.8	1.2	



BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT, AVALAHALLI, BENGALORE-64

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

A Brief Report on Student Centric Activity

Name of the	Seminar on advance concepts of Database Management
Activity/Topic	system
Class/Semester	I Sem M.Tech
Resource Person/s	NIL
Relevance of the topic	
Faculty member in- charge	Mrs. Ambika G.N
Date and Time	28/12/2018
Venue	M.Tech Class room
Description	Conducted seminar on Advance topics of Database,
(Separate Annexure may be enclosed, if the description is exceeding)	Students referred some IEEE papers for presentation.
No. of students attended	15
Learning outcome	The outcome of the Activity is students gained more knowledge on recent topics of DBMS.
POs achieved/mapped	PO2 and PO5
Total Expenditure in Rs.	NIL

Faculty in-charge



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BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT YELAHANKA, BENGALURU – 560064 Department of Computer Science and Engineering

Date: 28th Nov 2018

Course Name: Advances in Database Management System Type of Assignment: Seminar

Faculty: Ambika G.N

Assignment list for ADBMS 18SCS13 2018-19

SI. NO.	USN	Student Name	Topic Name	BT	со	PO1	PO2	PO3	PO4	PO5	POE
1.	1BY18SCS01	BHAGYASHREE A.V	Design and implementation of virtual database management system based on XML	K4	CO5		V	V	V	V	V
2.	1BY18SCS02	CHAITRASHREE H.S	Database systems: Implementation of a distributed database management system to support logical sub networks	К4	CO5		V	V	V	V	V
3.	1BY18SCS03	DIVYA SHREE S	Workload Management in Database Management System: A Taxonomy (Extended Abstract)	К4	CO5		V	V	V	V	V
4.	1BY18SCS04	FASIHA KAUSAR	Advanced query model design concept to support multi-dimensional data analytics for relational database management systems	К4	CO5		V	V	V	V	V
5.	1BY18SCS05	KAVERI T HOMBAL	Web technologies integrated with advance database management system: A laboratory experience	К4	CO5		V	V	V	V	V



BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT YELAHANKA, BENGALURU – 560064 Department of Computer Science and Engineering

6.	1BY18SCS06	NAVEEN KUMAR KV	MANDATE: MAnaging Networks Using DAtabase TEchnology	К4	CO5	V	V	V	V	V
7.	1BY18SCS07	PRAJWALA P	A Survey on Educational Data Mining and Research Trends	К4	CO5	V	V	V	V	V
8.	1BY18SCS08	PURUSHOTHAM NAIDU V	Development of an Online Integrated Library Management Information System: Case Study	К4	CO5	V	√.	V	V	V
9.	1BY18SCS09	RAJESWARI N	Applications Of Cloud Computing for Library Management System	K4	CO5	V	V	V	V	V
10.	1BY18SCS10	RAMYA P.L	Data Warehouse Applications	К4	CO5	V	V	V	V	V
11.	1BY18SCS11	RANJINI N	Developing Multithreaded Database Application Using Java Tools and Oracle Database Management System in Intranet Environment	К4	CO5	V	V	V	V	V
12.	1BY18SCS12	SNEHA S	Digital Library Billing Management System Design and Implementation	K4	CO5	V	V	V	V	V
13.	1BY18SCS13	SRIVATSA RAJU S	Architecture of a Database System	К4	CO5	V	V	V	V	V
14	1BY18SCS14	SUDHANSHU GUPTA	Digital Library Billing Management System Design and Implementation	K4	CO5	V	٧	V	V	V



BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT YELAHANKA, BENGALURU – 560064 Department of Computer Science and Engineering

Rubrics

Introduction Good study of the existing System. Collects great deal of information. Moderate study of the existing System. Collects some basic System. Collects some basic Information. Poor/ Inadequat System. 5 4-5 pts 2-3 pts Sope and Objectives of the paper All objectives of the proposed Work are well defined. Incomplete justification to the Objectives proposed. Objectives & and Specified 7 4-5 pts 2-3 pts Objectives & and Objectives proposed. Objectives & and Specified 9 5 4-5 pts 2-3 pts Objectives of Objectives proposed. Objectives & and Specified 9 5 4-5 pts 2-3 pts Objectives of Objectives proposed. Objectives of presentations are are appropriate and well Delivered. Contents of presentations are Appropriate but not well delivered. Contents of presentations are Appropriate but not well delivered. Contents of presentations are Appropriate but not well delivered. Contents of presentations are are appropriate and well Delivered. Present is generally well organized and Beport is coherently organized and the logic is easy to follow. There is no spelling or grammatical errors and Report is generally well organized and There is only a few minor spelling or one part to and	Parameter	Low
54-5 pts2-3 ptsScope and Objectives of the paperAll objectives of the proposed Work are well definedIncomplete justification to the Objectives proposed.Objectives & am specifiedPresentation Skills54-5 pts2-3 ptsContents of presentations are appropriate and well Delivered.Contents of presentations are Delivered.Contents of presentations are are appropriate and well Delivered.Contents of presentations are Appropriate but not well delivered.Contents of presentations are not appropriate and the period of the argument is easy to follow.Report is generally well organized and most of the argument is easy to follow.Report is one part to and one part to and	Introduction	Poor/ Inadequate study of the existing System.
Scope and Objectives of the paperAll objectives of the proposed Work are well definedIncomplete justification to the Objectives proposed.Objectives & am specifiedThe paper54-5 pts2-3 ptsContents of presentations are appropriate and well Delivered.Contents of presentations are are appropriate and well Delivered.Contents of presentations are Appropriate but not well delivered.Contents of presentations are and appropriate and well Delivered.Contents of presentations are Appropriate but not well delivered.Contents of presentations are appropriate and well Delivered.Report is coherently organized and the logic is easy to follow. There is no spelling or grammatical errors andReport is only a few minor spelling or one part to andReport to and one part to and		
54-5 pts2-3 ptsPresentation SkillsContents of presentations are appropriate and well Delivered.Contents of presentations are Appropriate but not well delivered.Contents of presentations are not appropriate and not appropriate and Report is coherently organized and the logic is easy to follow. There is no spelling or grammatical errors andReport is conly a few minor spelling or one part to and	Scope and Objectives of the paper	Objectives & amp; Scope are not clearly specified
Presentation SkillsContents of presentations are appropriate and well Delivered.Contents of presentations are Appropriate but not well delivered.Contents of presentations are not appropriate and not appropriate and 		0-1 pts
5 4-5 pts 2-3 pts Report Report is coherently organized and the logic is easy to follow. There is no spelling or grammatical errors and there is only a few minor spelling or one part to and spelling or grammatical errors and there is only a few minor spelling or one part to and the spelling or grammatical errors and there is only a few minor spelling or one part to and the spelling or grammatical errors and the	Presentation Skills	Contents of presentations are not appropriate and not well delivered.
ReportReport is coherently organized and theReport is generally well organized andReport is poorlySubmissionlogic is easy to follow. There is nomost of the argument is easy to follow.to read - doesspelling or grammatical errors andThere is only a few minor spelling or one part to and		0-1
terminology is clearly defined. Writing is clear and concise and persuasive. but may lack conciseness. is clearly defined. Writing is mostly clear is clearly defined.	Report Submission	Report is poorly organized and difficult to read – does not flow logically from one part to another. There are several spelling and/or grammatical errors; technical terms may not be defined or are poorly defined. Writing lacks clarity



BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT YELAHANKA, BENGALURU – 560064 Department of Computer Science and Engineering

Grading policies:

- The last date for the submission of the assignment is on or before 30 Dec 2018 (hard deadline).
- A 15 slides ppt must be presented within 5 working days from the submission date.
- Grading will be based on punctual submission of the assignment.

Course Coordinator Signature:

													BM	I S I	nstit	ut	e of T	[ech	nolo	ogy	& Ma	nag	em	ent												
	BATCH SUBJECT Faculty In-Charge	: 2018 : ADVANCES IN DATABASE MA : AMBIKA G.N	SEM: INAGEMENT SY	I /STEM												De	pt of Com	puter S	cience &	Engine	eering		SESSION:	: OCT 2018-J	AN 2019											
60% 55% 50%	STUDENTS MUST SCORE STUDENTS MUST SCORE STUDENTS MUST SCORE	TARGET 60% 60%	& ABOVE & ABOVE & ABOVE	LEV 3-High 2-Moderate 1-Low	/EL														PG	COI	JRSE															
	COURSE OUTCOMES	ATTAINMENT - I A	ATTAINMENT - VTU	OVERALL ATTAINMENT	_																															
	C01	3.00	0.00	1.20	_																															
	C02	3.00	0.00	1.20	_																															
	C04	3.00	0.00	1.20	_																															
	CO5: CASE STUDY &	3.00		1 20																																
	ASSIGNMENT	5.00		1.20																																
	CLASS STRENGTH SET IA TARGET	14 60%	-																																	
						TEST-	1						TEST-2				TEST-3	3															ALL COs			
		CO No.	1	2	2	2	2	3	4 5		2 3	3	2 3 3	3 3 5	2	3 4	3 3 3 5	5 5	5	1	C01			CO2			203		C04		C05				BATCH	2018
		Question No.	1	2	3	4	5	6	7 8	9 10	1 2	3	4 5 6	5 7 8	9 10 1	2 3	4 5 6 7	7 8 9	10 Seminar& Assignme nt Assignme nt	e TOTAL	PERCENT	Target	TOTAL	PERCENT		PER	ENT Target >=5	% TOTAL	PERCENT	Target	PERCENT TAL >=55	et 5%	THEORY EXT	1	SEM	I
		MAXIMUM MARKS FOR QUESTION	6	6	6	6	6	6	6 6		6 6	6	6 6 6	6 6 6	6	6 6	6 6 6 6	6 6	20		%	>=22%	-	%	Target >=55%	9			%	>=55%	%		Grade Point 60	•	SUB	ADVANCES IN DATABASE MANAGEMENT SYSTEM
l No.	USN	Name							_																										SESSION	2019 2018-JAN
1	1BY18SCS01	BHAGYASHREE A.V		6	6			6	6 6		6	4	6	66	A				20	0	0.00%		18	100.00%	Y	22 91.6	7% Y	6	100.00%	Y 3	2 100.00%	Y	33	3	Class Strength	15
2	1BY18SCS02	CHAITRASHREE H.S	6	0	6				4 2		5 0		6 4	6 5	A	_			20	0	0.00%	~	19	79.17%	Y	18 100. 10 923	20% Y	4	66.67%	Y 2	8 87.50%	Y	3	<u> </u>	Set Target I A	60%
4	1BY185CS04	FASIHA KAUSAR		6	6			2	6 5		5 6		6 !	5 6 6		6	6 6 6	5 6	20	0	0.00%	· ·	23	95.83%	Y	37 88.1	0% Y	6	100.00%	Y 4	3 97.73%	Y	20	9 -	Target >=55%	AMBIRA G.N
5	1BY18SCS05	KAVERI T HOMBAL	6	6	5				6 6		6		6 2	6 6	A				20	6	100.00%	Y	23	95.83%	Y	8 66.0	7% Y	6	100.00%	Y 3	2 100.00%	Y	34	4	3	60%
6	1BY18SCS06	NAVEEN KUMAR KV	6	6	6	4					3		6	66					20	6	100.00%	Y	25	83.33%	Y	6 100.	00% Y	0	0.00%	2	100.00%	Y	33	3	2	55%
7	1BY18SCS07	PRAJWALA P	-	6	6			4	6 4		6	6	4	66	A	_			20	0	0.00%		18	100.00%	Y	20 83.3	3% Y	6	100.00%	Y 3	93.75%	Y	30	8	1	50%
8	1BY18SCS08	PURUSHOTHAM NAIDU V	6	6	5				6 6	_	6 6	2	6	4 6	6	6	66	5 6	20	6	100.00%	Y	23	95.83%	Y	<u>34</u> 94.0	4% Y	6	100.00%	Y 4	4 100.00%	Y	3		No. of COs	5
9	1811850509	RAJESWARIN		6	- S				6 5		6	3	6 6	6 6	A				20	0	0.00%		23	95.83%	Y V	11 61.1 1E 62.2	1% Y	6	100.00%	Y 3	1 06 99%	Y V	<u> </u>	1 No c	of students who were	60.00%
10	1891850510	RAMYA P.L	6	0	0	6			6 6		6		6 6	5 4 5	A	_			20	6	100.00%	×	10	100.00%	v	11 61	10/ V	6	100.00%	V 2	1 06 99%	v	4.		present in EXAM	14
12	1BY185C512	SNEHA S	6		6		6	<u>⊢</u> •+	6 6		6		6 4	6 6	A	-			20	6	100.00%	Y	18	100.00%	v	16 88.	9% V	6	100.00%	Y Y	2 100.00%	v		8		
13	1BY18SCS13	SRIVATSA RAJU S	6		5		-		5 5		6		6	56		5 6	666	5 6	20	6	100.00%	Y	17	94.44%	Y	22 91.0	7% Y	11	91.67%	Y 4	3 97.73%	Y	3	3		
14	1BY18SCS14	SUDHANSHU GUPTA		5	2			5	6 5		5		6 5	6 6	A				20	0	0.00%		18	75.00%	Y	16 88.8	9% Y	6	100.00%	Y 3	96.88%	Y	3	0		
																					Target >=55% CO1	7		Target >=55% CO2 1	14 00.00%	Target	>=55% 14		Target >=55% CO4	i 13 100.00%	Target >=55% 1 CO5 100	14 0.00%	47. Avg. 33.78	3		3

	CO RESULT	P01	P02	P03	P04	P05	P06
CO1: Summarize parallel and distributed databases and its applications. (K2)	3						
CO2: Illustrate basic concepts, principles of intelligent databases. (K3)	3			1			
CO3: Use the advanced topics of data warehousing and mining.(K3)	3			2			
CO4: Discover knowledge in research topics of databases(K3)	3			2			
CO5: Analyze the given problem and solve using the concepts of ADBMS (K4)	3		2	3	3	2	3
SU	M	0	2	8	3	2	3
Cii	ii*	0	2	2	3	2	3

Delivery Mechanism
Lecture, PPT
Lecture, PPT
Lecture, Hands on, PPT
Lecture, Hands on, PPT
Lecture, Hands on, PPT

		0	1	4	1	1	1
	CO RESULT	P01	P02	P03	P04	P05	P06
CO1: Summarize parallel and distributed databases and its applications. (K2)	1.20	0	0	0	0	0	0
CO2: Illustrate basic concepts, principles of intelligent databases. (K3)	1.20	0	0	0.4	0	0	0
CO3: Use the advanced topics of data warehousing and mining.(K3)	1.20	0	0	0.8	0	0	0
CO4: Discover knowledge in research topics of databases(K3)	1.20	0	0	0.8	0	0	0
CO5: Analyze the given problem and solve using the concepts of ADBMS (K4)	1.20	0	0.8	1.2	1.2	0.8	1.2
SU	IM	0	0.8	3.2	1.2	0.8	1.2
FINAL ATT	AINMENT	0	0.8	0.8	1.2	0.8	1.2

UNIVERSITY EXAM CONTRIBUTION
Attained all COs highly (=3) (meaning, 64 % of the students have scored more than 55% of marks)
ACTION TAKEN
Seminar & Assignments have been taken to attain PO2.
CONCLUSION
CONCLUSION Low Attainment: P02, P03, P04, P05,P06
CONCLUSION Low Attainment: PO2, PO3, PO4, PO5,PO6 PO1 is not been mapped and hence not attained.
CONCLUSION Low Attainment: PO2, PO3, PO4, PO5,PO6 PO1 is not been mapped and hence not attained.
CONCLUSION Low Attainment: P02, P03, P04, P05,P06 P01 is not been mapped and hence not attained. OBSERVATION

FINAL CO ATT	AINMENT ANALY	SIS - ADBMS - 18	SCS13 - 2018-19 -	2018 Batch
C01	CO2	CO3	CO4	C05
1.20	1.20	1.20	1.20	1.20
3.00 2.50 2.00 0.50 1.20 0.50 0.50 0.00 CO1	1.20 CO2	1.20 CO3 rse Outcomes	1.20 CO4	1.20 CO5





	P01	P02	P03	P04	P05	P06
FINAL ATTAINMENT	0	0.8	0.8	1.2	0.8	1.2