Jawahar Education Society's,
INSTITUTE OF TECHNOLOGY, MANAGEMENT & RESEARCH, NASHIK.

(Approved by AICTE and DTE, Government of Maharashtra, Affiliated to Savitribai Phule Pune University)

2.6.1. Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of POs and COs are evaluated

Survey No 48, Gowardhan, Gangapur Road,
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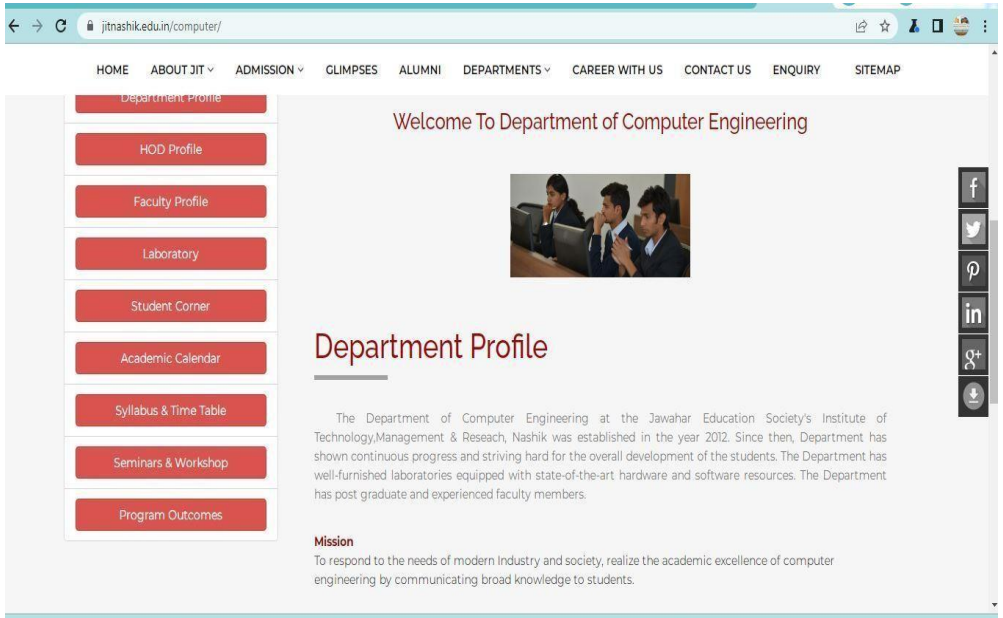
CO, POs, PSO on Website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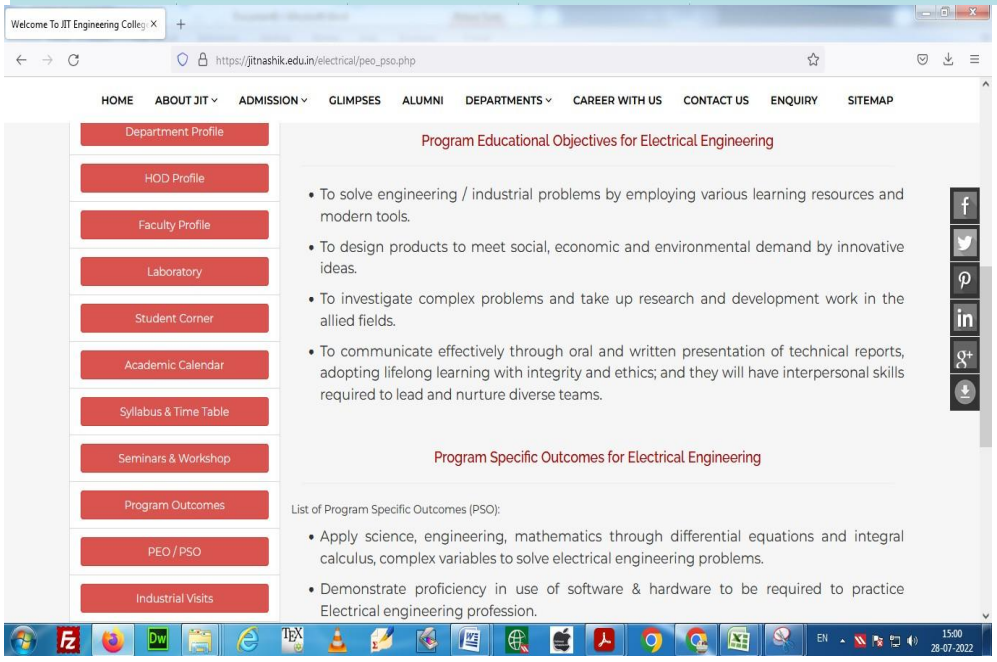
Program Outcomes
Welcome To Department of Computer Engineering
Department Profile
The Department of Computer Engineering at the Jawahar Education Society's Institute of Technology,Management & Reseach, Nashik was established in the year 2012. Since then, Department has shown continuous progress and striving hard for the overall development of the students. The Department has well-furnished laboratories equipped with state-of-the-art hardware and software resources. The Department has post graduate and experienced faculty members.
Mission
To respond to the needs of modern Industry and society, realize the academic excellence of computer engineering by communicating broad knowledge to students.


https://jitnashik.edu.in/electrical/peo_pso.php
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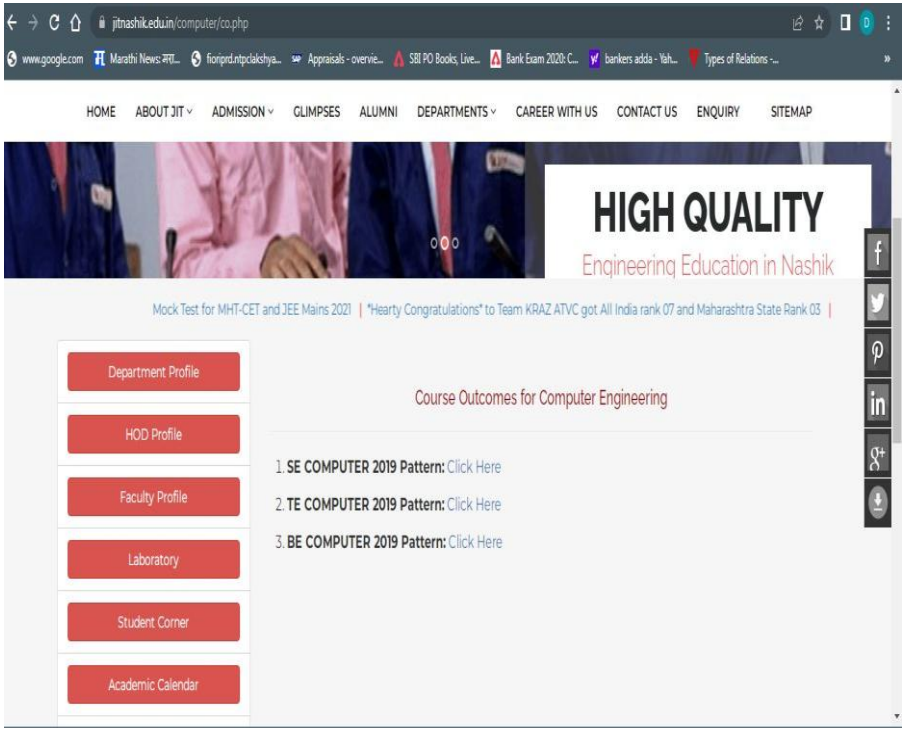
Program Outcomes
PEO / PSO
Industrial Visits
Program Educational Objectives for Electrical Engineering
• To solve engineering / industrial problems by employing various learning resources and modern tools.
• To design products to meet social, economic and environmental demand by innovative ideas.
• To investigate complex problems and take up research and development work in the allied fields.
• To communicate effectively through oral and written presentation of technical reports, adopting lifelong learning with integrity and ethics; and they will have interpersonal skills required to lead and nurture diverse teams.
Program Specific Outcomes for Electrical Engineering
List of Program Specific Outcomes (PSO):
• Apply science, engineering, mathematics through differential equations and integral calculus, complex variables to solve electrical engineering problems.
• Demonstrate proficiency in use of software & hardware to be required to practice Electrical engineering profession.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Engineering Education in Nashik
Mock Test for MHT-CET and JEE Mains 2021 | *Hearty Congratulations* to Team KRAZ ATVC got All India rank 07 and Maharashtra State Rank 03 |
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Course Outcomes for Computer Engineering
1. SE COMPUTER 2019 Pattern: Click Here
2. TE COMPUTER 2019 Pattern: Click Here
3. BE COMPUTER 2019 Pattern: Click Here

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CO Mentioned in Curriculum

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Savitribai Phule Pune University, Pune
Bachelor of Computer Engineering

Program Educational Objectives

1. To prepare globally competent graduates having strong fundamentals, domain knowledge, updated with modern technology to provide the effective solutions for engineering problems.
2. To prepare the graduates to work as a committed professional with strong professional ethics and values, sense of responsibilities, understanding of legal, safety, health, societal, cultural and environmental issues.
3. To prepare committed and motivated graduates with research attitude, lifelong learning, investigative approach, and multidisciplinary thinking.
4. To prepare the graduates with strong managerial and communication skills to work effectively as individual as well as in teams.

Program Outcomes

Students are expected to know and be able –

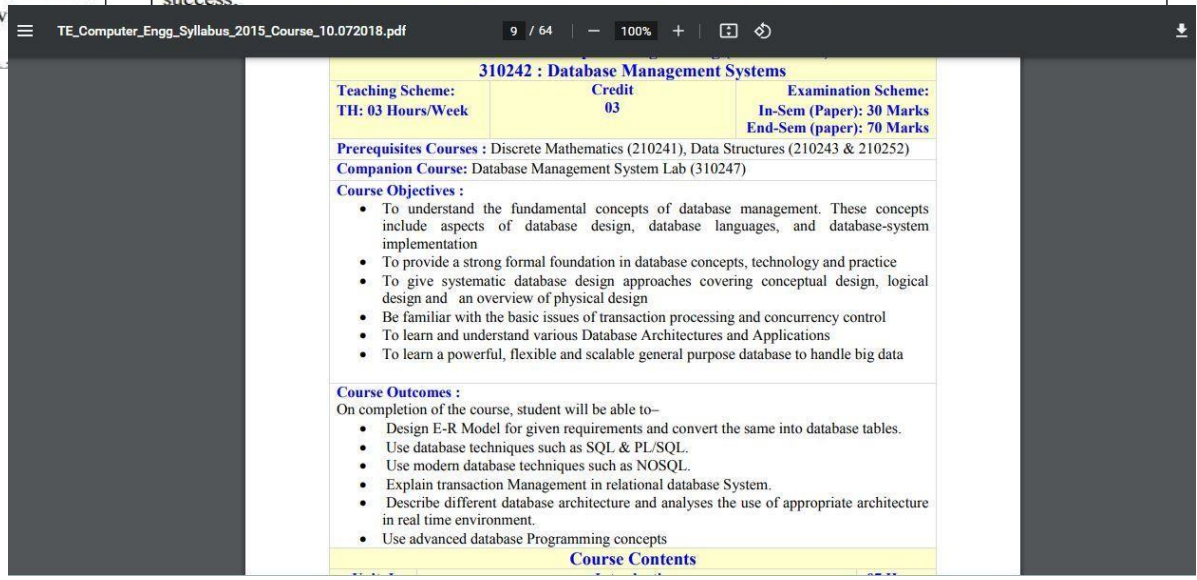
1. To apply knowledge of mathematics, science, engineering fundamentals, problem solving skills, algorithmic analysis and mathematical modeling to the solution of complex engineering problems.
2. To analyze the problem by finding its domain and applying domain specific skills
3. To understand the design issues of the product/software and develop effective solutions with appropriate consideration for public health and safety, cultural, societal, and env considerations.
4. To find solutions of complex problems by conducting investigations applying suitable techniques.
5. To adapt the usage of modern tools and recent software.
6. To contribute towards the society by understanding the impact of Engineering on global aspect.
7. To understand environment issues and design a sustainable system.
8. To understand and follow professional ethics.
9. To function effectively as an individual and as member or leader in diverse teams and interdisciplinary settings.
10. To demonstrate effective communication at various levels.
11. To apply the knowledge of Computer Engineering for development of projects, and its finance and management.
12. To keep in touch with current technologies and inculcate the practice of lifelong learning.

Program Specific Outcomes (PSO)

A graduate of the Computer Engineering Program will demonstrate-

PSO1: Professional Skills-The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying.

PSO2: Problem-Solving Skills- The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success.



310242 : Database Management Systems

Teaching Scheme:	Credit	Examination Scheme:
TH: 03 Hours/Week	03	In-Sem (Paper): 30 Marks End-Sem (paper): 70 Marks

Prerequisites Courses : Discrete Mathematics (210241), Data Structures (210243 & 210252)

Companion Course: Database Management System Lab (310247)

Course Objectives :

- To understand the fundamental concepts of database management. These concepts include aspects of database design, database languages, and database-system implementation
- To provide a strong formal foundation in database concepts, technology and practice
- To give systematic database design approaches covering conceptual design, logical design and an overview of physical design
- Be familiar with the basic issues of transaction processing and concurrency control
- To learn and understand various Database Architectures and Applications
- To learn a powerful, flexible and scalable general purpose database to handle big data

Course Outcomes :

On completion of the course, student will be able to–

- Design E-R Model for given requirements and convert the same into database tables.
- Use database techniques such as SQL & PL/SQL.
- Use modern database techniques such as NOSQL.
- Explain transaction Management in relational database System.
- Describe different database architecture and analyses the use of appropriate architecture in real time environment.
- Use advanced database Programming concepts

Course Contents

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Course Details – CO, Threshold

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Department of Computer Engineering

Database Management System

Class: TE Comp

Course Outcomes			MockInSem		MockEndSem		CA1
C312.1	Design E-R Model for given requirements and convert the same into database tables.	**Total Strength**	**Total Present**	**Total Absent**	**Total Present**	**Total Absent**	**Total Present**
C312.2	Use database techniques such as SQL & PL/SQL	**36**	**35**	**1**	**35**	**1**	**36**
C312.3	Design good database using normalization	**Attainment Level**					
C312.4	Explain transaction Management in relational database System	**L1**	**L2**	**L3**			
C312.5	Describe different database architecture and analyses the use of appropriate architecture in real time environment	**50**	**60**	**70**			
C312.6	Use advanced database Programming concepts Big Data – HADOOP & Apply modern database techniques such as NOSQL	**Threshold**					
		50					

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Unit Test 1

Assessment & Analysis

JES'Institute of Technology, Management and Research, Nashik

Department : Computer_Engineering

Academic Year : 2018-19 (Semester 1)

Mock In-Sem Examination - Part 1

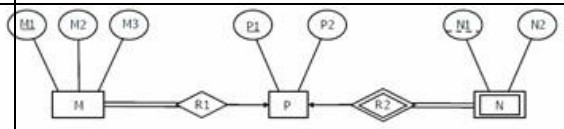
Class : T.E. Computer Marks : 15 Date : 24/07/2018 Duration : 30 Mins

Course: Database Management System (DBMS) :: 310242

Instructions

1 ***Assume suitable data, if necessary***

2 ***Figures to the right indicate full marks***

CO	BT	Q.No	Sub Q	Questions	Marks	Unit No	Ans
1	3	1	a	 The minimum number of tables needed to represent M, N, P, R1, R2 is (A) 2 (B) 3 (C) 4 (D) 5	1	1	B
1	3		b	Let E1 and E2 be two entities in an E/R diagram with simple single-valued attributes. R1 and R2 are two relationships between E1 and E2, where R1 is one-to-many and R2 is many-to-many. R1 and R2 do not have any attributes of their own. What is the minimum number of tables required to represent this situation in the relational model? (a) 2 (b) 3 (c) 4 (d) 5	2	1	B
1	1		c	For each attribute of a relation, there is a set of permitted values, called the _____of that attribute. a) Domain b) Relation c) Set d) Schema	1	1	A
1	2		d	The entity set person is classified as student and employee. This process is called _____ a) Generalization b) Specialization c) Inheritance d) Constraint generalization	1	1	B
2	2	2	a	1) Which of the following statements are TRUE about an SQL query? P: An SQL query can contain a HAVING clause even if it does not a GROUP BY clause Q: An SQL query can contain a HAVING clause only if it has a GROUP BY clause R: All attributes used in the GROUP BY clause must appear in the SELECT clause S: Not all attributes used in the GROUP BY clause need to appear in the SELECT clause	1	2	D
2	5		b	Table A Id Name Age ---------- 12 Arun 60 15 Shreya 24 99 Rohit 11 Table B Id Name Age ---------- 15 Shreya 24 25 Hari 40 98 Rohit 20 99 Rohit 11 Table C Id Phone Area ---------- 10 2200 02 99 2100 01 Consider the above tables A, B and C. How many tuples does the result of the	2	2	B

2	3		c	books. Assuming that no two books have the same price, what does the following SQL query list? select title from book as B where (select count(*) from book as T where T.price > B.price) < 5 (a) Titles of the four most expensive books	2	2	D
3	2	3	a	Which of the following is TRUE? (A) Every relation in 2NF is also in BCNF (B) A relation R is in 3NF if every non-prime attribute of R is fully functionally dependent on every key of R (C) Every relation in BCNF is also in 3NF (D) No relation can be in both BCNF and 3NF	1	3	C
3	2		b	Which one of the following statements about normal forms is FALSE? (a) BCNF is stricter than 3NF (b) Lossless, dependency-preserving decomposition into 3NF is always possible (c) Lossless, dependency-preserving decomposition into BCNF is always possible (d) Any relation with two attributes is in BCNF	1	3	C
3	3		c	The following functional dependencies are given: AB → CD, AF → D, DE → F, C → G , F → E, G → A Which one of the following options is false? (A)CF+ = {ACDEFG} (B)BG+ = {ABCDG} (C)AF+ = {ACDEFG} (D)AB+ = {ABCDFG}	2	3	C
3	2		d	In the_____normal form, a composite attribute is converted to individual attributes A) First B) Second C) Third D) Fourth	1	3	A

CO1	**Design E-R Model for given requirements and convert the same into database tables**	C312.1
CO2	**Use database techniques such as SQL & PL/SQL**	C312.2
CO3	**Design the database with the help of normalization**	C312.3

JES'Institute of Technology, Management and Research, Nashik
Department of Computer Engineering

MockInSem Exam (Academic Year : 2018-19 (Semester 1) - Part 2

Class : TE Computer Marks : 15 Date : 24/07/2018 Duration : 30 Mins

Course: Database Management System (DBMS) :: 310242

Instructions:

Answer Q1 or Q2, Q3 or Q4, Q5 or Q6

Figures to the right side indicates full marks

Assume suitable data if necessary

CO	Taxono	Q. No.	Questions	Marks	Unit No.	Scheme
1	3	Q.1	Assuming you as a part of designer and development team, propose E-R model using E-R Diagram for the following data	5	1	ER Model : Full marks
			OR			
1	3	Q.2	Draw the ER Diagram which model University Database	5	1	ER Model : Full
2	3	Q.3	Explain with the example the concept of referential integrity	5	2	Define : 1
			OR			
2	3	Q.4	Write PL/SQL code block for displaying the area of circle with radius	5	2	Function : 3
3	3	Q.5	Compute the closure of the following set F of functional	5	3	Closure: 2,
			OR			
3	3	Q.6	StudentsDetails(Stud_id, Stud_name, Zip, City)	5	3	Compute : 2

CO	Course Oucome
1	CO1: Design E-R Model for given requirements and convert the same into database tables.
2	CO2: Use database techniques such as SQL & PL/SQL
3	CO3: Design the database with the help of normalization

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Department of Computer Engineering

Database management System TE-COMP

			Mock In Sem Exam																			
			Mock Insem-Online-MCQ											Mock Insem-Descriptive						Total Student Present:35 MCQ,35 Descriptive			
SN	PRN	Name of Student	Q.1 A	Q.1 B	Q.1 C	Q.1 D	Q.2 A	Q.2 B	Q.2 C	Q.3 A	Q.3 B	Q.3 C	Q.3 D	Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	CO1 Marks	CO2 Marks	CO3 Marks	Total Marks
			CO1	CO1	CO1	CO1	CO2	CO2	CO2	CO3	CO3	CO3	CO3	CO1	CO1	CO2	CO2	CO3	CO3				
			1	2	1	1	1	2	2	1	1	2	1	5	5	5	5	5	5	10	10	10	30
1		Snehal N. Amrutkar	1	2	0	1	1	2	2	1	0	2	1	4			5	5		8	10	9	27
2		Sakshi S Shelake	1	2	1	1	1	2	2	0	1	2	0		5		5	5		10	10	8	28
3		Bharat S Ghute	1	2	1	1	1	2	2	1	1	0	1		5		5		4	10	10	7	27
4		Tarangkumar N Patel	1	2	1	1	1	2	2	1	1	2	1		4		5	5		9	10	10	29
5		Vaishnavi V Pathak	1	2	1	1	1	2	2	1	1	2	1							5	5	5	15
6		Shruti K Ahire	1	2	1	1	1	2	2	1	1	2	1		5		5	5		10	10	10	30
7		Bhakti G Gangurde	1	2	1	1	1	2	2	1	1	2	1	5		5		5		10	10	10	30
8		Prajakta Gwalherkar	1	2	1	1	1	2	2	1	1	2	1	5			5	5		10	10	10	30
9		Mayuri A Yeole	1	2	1	1	1	2	2	1	1	2	1		5		4	5		10	9	10	29
10		Piyush D Verma	1	2	1	1	0	0	2	1	1	2	1	4			5	5		9	7	10	26
11		Robin J Sadaphule	1	0	1	1	1	2	0	1	1	2	1		5	5			4	8	8	9	25
12		Poonam P Jadhav	1	2	1	1	1	2	2	1	1	2	0	4		5		4		9	10	8	27
13		Swati M Dateer	1	0	1	0	1	0	0	1	0	2	0	4		5		3		6	6	6	18
14		Chadrashekhar S Dheringe	1	2	1	1	1	2	2	1	1	2	1	5		4		3		10	9	8	27
15		Kavita V Gaikar	1	2	1	1	1	2	2	1	1	2	0	4			5	4		9	10	8	27
16		Rekha J Mallah	1	2	1	1	1	2	2	1	1	2	1		5		4	4		10	9	9	28
17		Suvarna A Rakshe	1	2	1	1	1	2	2	1	1	2	1	4		5		5		9	10	10	29
18		Dipali R Thete	1	2	1	1	1	2	2	1	1	2	1	5			5		3	10	10	8	28
19		Kanchan P Aher	AB																	0	0	0	0
20		Snehal G Bagul	1	2	1	1	1	2	2	1	1	2	0	4		3		4		9	8	8	25
21		Savita D Yadav	1	2	1	1	1	2	2	1	1	0	1	5		5		5		10	10	8	28
22		Vaibhav B Nikam	1	2	1	1	1	2	2	1	1	2	1		5		5	5		10	10	10	30
23		Harshada G Das	1	2	1	1	1	2	2	1	1	2	1		5		5	5		10	10	10	30
24		Ashwini J Mahajan	1	2	1	1	0	2	2	1	1	2	1		5		5	5		10	9	10	29
25		Kuldeep N Kadu	1	2	1	1	1	2	0	1	1	0	1	5		5		5		10	8	8	26
26		Chetan B Amrutkar	1	0	1	1	1	2	2	1	1	0	1	4			3	3		7	8	6	21
27		Shital T Bhamare	1	2	1	1	1	2	2	1	1	2	1	5		5	5	5		10	10	10	30
28		Jagruti S Nere	1	2	1	1	1	2	2	1	1	2	1		5		5	5		10	10	10	30
29		Jayashri D Pawar	1	2	1	1	1	2	2	1	1	2	1		5		5	5		10	10	10	30
30		Gaurav S Wani	1	2	1	1	1	2	2	1	1	0	1	4			4	3		9	9	6	24
31		Harshal K Karpe	1	2	1	1	1	2	2	1	1	2	1	4			5	3		9	10	8	27
32		Yogesh R Patil	1	2	1	1	1	2	2	1	1	2	1	3			4	5		8	9	10	27
33		Pooja R Naidu	1	2	1	1	1	2	2	1	1	2	1		3		5	5		8	10	10	28
34		Sagar Sonar	1	2	1	1	1	2	2	1	1	2	1		3		4	3		8	9	8	25
35		Rupali Anap	1	2	1	1	1	2	2	1	1	2	1		5		3	4		10	8	9	27
36		Khatale Nikita M.	1	2	1	1	1	2	2	1	1	2	1	3			3	5		8	8	10	26
37		Questionwise Max Marks	1	2	1	1	1	2	2	1	1	2	1	5	5	5	5	5	5	5	5	5	15
38		Taxonomy Level/ Competence 50 %Thre	3	3	1	2	2	5	3	2	2	3	2	3	3	3	3	2	2	35	35	35	
39		CO/No. of Students Above Threshold																		CO1	CO2	CO3	
														Q.1 A	Q.2 A	Q.3 A	Q. 4 A	Q.5 A	Q.6 A	100	100	100	

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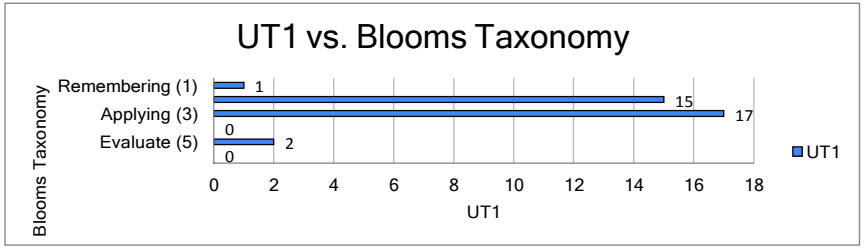
Department of Computer Engineering

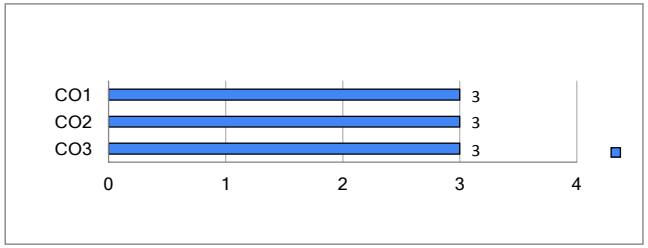
Database Management System **TE-COMP**

Blooms Taxonomy	UT1
Remembering (1)	1
Understanding (2)	15
Applying (3)	17
Analyzing (4)	0
Evaluate (5)	2
Create (6)	0



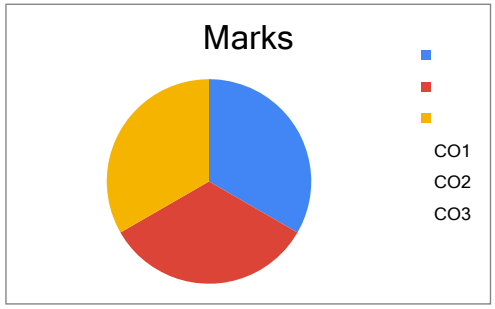
			Attainment
50	% Students get score more than target	17.5	1
60	% Students get score more than target	21	2
70	% Students get score more than target	24.5	3

Attainment



MockInSem	CO1	35	3
	CO2	35	3
	CO3	35	3

Course Outcome	Marks
CO1	10
CO2	10
CO3	10



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Assignments

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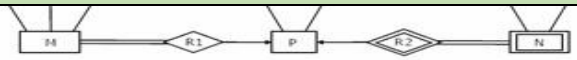
JES'Institute of Technology, Management and Research, Nashik
Department of Computer Engineering

Assignments

Class : TE Computer Marks : 30 Academic Year : 2018-19 Semester 1

CO	Blooms Taxonomy Level	Q. No.	Questions	Marks	Marking Scheme
1	4	1	:  : : :	5	Correct Identfication with explaination: 5
2	3	2	In a schema with attributes A, B, C, D and E following set of functional dependencies are given	5	Select right choice: 3,
3	3	3	Table A Id Name Age	5	Identify number of tuples: 5,
4	4	4	Consider the following transactions with data items P and Q initialized to zero:	5	Select right choice: 4,
5	3	5	Consider a failure that occurs during 2PC for a transaction. For each possible failure (all the possible failures from Distributed Databases), explain how 2PC ensures transaction atomicity despite the failure.	5	Explaination with Every Failure: 2 Marks, List: 1

6	4	6	Collection “movies” which contain documents given as below
			{
			name: “Movie1”,
			type :”action”,
			director_name:”Aditya”,
			budget:10000000
			ratings:[7,6,5],
			producer:[
			{
			name:”Producer 1”,
			address:”Producer1_Address” },
			{
			name:”Producer 1”,
			address:”Producer1_Address”
			}
			Write MongoDB Queries for the following
			a) find all documents having ratings at least 6.
			b) find all documents produced by
			{name:”Producer1”,address:”Procucer1_Address”
				5	2.5 per Query

Jawahar Education Society's,
INSTITUTE OF TECHNOLOGY, MANAGEMENT & RESEARCH, NASHIK.

Department of Computer Engineering

Database Management System TE-COMP

SN	PRN	Name of Student	Assignment 1						
			CO1	CO2	CO3	CO4	CO5	CO6	Total Marks
			4	3	3	4	3	4	
			5	5	5	5	5	5	30
1		Snehal N. Amrutkar	4	3	3	4	4	5	23
2		Sakshi S Shelake	5	5	4	5	4	5	28
3		Bharat S Ghute	4	4	3	4	4	5	24
4		Tarangkumar N Patel	4	3	4	5	4	5	25
5		Vaishnavi V Pathak	4	3	4	4	4	5	24
6		Shruti K Ahire	5	4	4	5	5	5	28
7		Bhakti G Gangurde	4	4	5	4	5	5	27
8		Prajakta Gwalherkar	5	3	4	4	5	5	26
9		Mayuri A Yeole	4	4	4	4	4	0	20
10		Piyush D Verma	5	3	4	4	4	5	25
11		Robin J Sadaphule	4	3	3	4	3	5	22
12		Poonam P Jadhav	4	3	4	5	3	0	19
13		Swati M Dateer	3	4	4	4	5	5	25
14		Chadrashekhar S Dheringe	4	4	4	4	4	4	24
15		Kavita V Gaikar	0	4	4	5	5	5	23
16		Rekha J Mallah	4	5	4	4	5	5	27
17		Suvarna A Rakshe	4	4	4	4	5	5	26
18		Dipali R Thete	4	5	4	4	5	5	27
19		Kanchan P Aher	3	4	3	5	2	5	22
20		Snehal G Bagul	4	3	4	4	5	5	25
21		Savita D Yadav	4	5	4	4	5	5	27
22		Vaibhav B Nikam	4	3	4	4	5	5	25
23		Harshada G Das	5	4	5	4	5	5	28
24		Ashwini J Mahajan	4	3	3	4	4	4	22
25		Kuldeep N Kadu	4	4	3	4	5	5	25
26		Chetan B Amrutkar	3	4	4	4	4	3	22
27		Shital T Bhamare	5	4	4	3	4	5	25
28		Jagruti S Nere	4	4	3	4	5	5	25
29		Jayashri D Pawar	4	4	3	4	5	5	25
30		Gaurav S Wani	4	3	4	4	4	5	24
31		Harshal K Karpe	4	4	3	4	4	5	24
32		Yogesh R Patil	3	3	3	4	5	5	23
33		Pooja R Naidu	4	4	0	3	0	5	16
34		Sagar Sonar	0	0	0	0	0	0	0
35		Rupali Anap	4	4	3	4	5	5	25
36		Khatale Nikita M.	4	3	4	4	4	5	24
		Questionwise Max Marks	2.5	2.5	2.5	2.5	2.5	2.5	
		Taxonomy Level/ Competence 50 %Threshold							
		CO/No. of Students Above Threshold	34	35	34	35	33	33	
			94.44	97.22	94.44	97.22	91.67	91.67	

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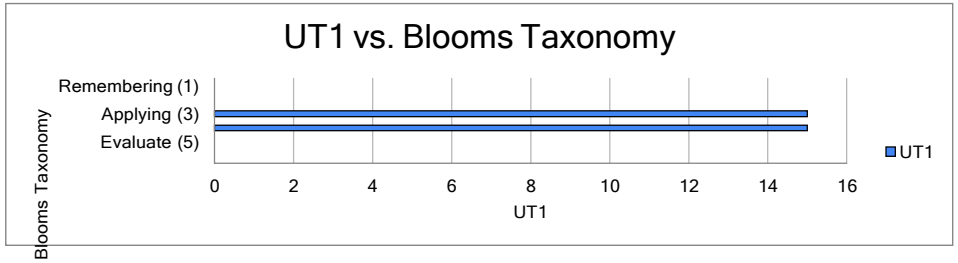
JIT JAWAHAR INSTITUTE OF TECHNOLOGY, NASHIK

Department of Computer Engineering

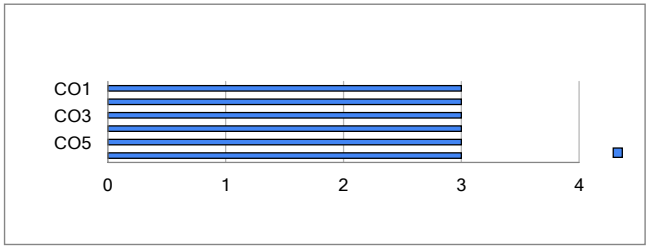
Database Management System **TE-COMP**

Blooms Taxonomy	UT1
Remembering (1)	0
Understanding (2)	0
Applying (3)	15
Analyzing (4)	15
Evaluate (5)	0
Create (6)	0



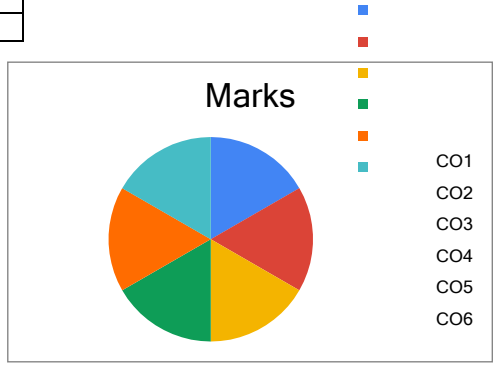
			Attainment
50	% Students get score more than target	18	1
60	% Students get score more than target	21.6	2
70	% Students get score more than target	25.2	3

Attainment



Assignments	CO1	34	3
	CO2	35	3
	CO3	34	3
	CO4	35	3
	CO5	33	3
	CO6	33	3

Course Outcome	Marks
CO1	5
CO2	5
CO3	5
CO4	5
CO5	5
CO6	5



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INSTITUTE OF TECHNOLOGY, MANAGEMENT & RESEARCH, NASHIK.

(Approved by AICTE and DTE, Government of Maharashtra, Affiliated to Savitribai Phule Pune University)

Unit Test 2
Assessment & Analysis

Survey No 48, Gowardhan, Gangapur Road,
Nashik - 422 222. Maharashtra, India
www.jitnashik.edu.in

JES'Institute of Technology, Management and Research, Nashik

Department : Computer Engineering

Internal Assessment Examination - II

Class : T.E. Comp Date: / /2018 Time: 30 Min. Marks : 30

Course: Database Management System (DBMS) :: 310242

Instructions:

1 Assume suitable data, if necessary.

CO	BL	QN	Questions	Option A	Option B	Option C	Option D	Marks	Unit No.	Ans Key
4	3	1	Consider the following transaction involving two bank accounts x and y.read(x); x : = x-50; write(x); read(y); y:=y+50; write(y)The constraint that the sum of the accounts x and y should remain constant is that of	Atomicity	Consistency	Isolation	Durability	1	4	B
4	2	2	Which of the following concurrency control protocols ensure both conflict serializability and freedom from deadlock?	2-phase locking	Time-stamp ordering	Both A and B	None of the above	1	4	B
4	3	3	Consider the following schedule for transactions T1, T2 and T3: T1 T2 T3 Read (X) Read (Y) Read (Y) Write (Y) Write (X) Write (X) Read (X) Write (X) Which one of the schedules below is the correct serialization of the above?	T1 → T3 → T2	T2 → T1 → T3	T2 → T3 → T1	T3 → T1 → T2	1	4	A
4	2	4	Execution of translation in isolation preserves the _____ of a database	Atomicity	Consistency	Durability	All of the mentioned	1	4	B
4	2	5	The deadlock in a set of transaction can be determined by	Read-only graph	Wait graph	Wait-for graph	All of the mentioned	1	4	A
4	2	6	_____rollback requires the system to maintain additional information about the state of all the running transactions.	Total	Partial	Time	Commit	1	4	B
4	2	7	Checkpoints are a part of	Recovery measures	Security measures	Concurrency measures	Authorization measures	1	4	A
4	2	8	A directed graph which represents the deadlock is called :	cycle graph	deadlock graph	wait-for graph	none of the above	1	4	C
4	2	9	If a transaction has obtained a_____lock, it can read but cannot write on the item	Shared mode	Exclusive mode	Read only mode	Write only mode	1	4	A

4	2	10	The two phase locking protocol consists which of the following phases?	Growing phase	Shrinking phase	More than one of the mentioned	None of the mentioned	1	4	C
5	2	11	While using commit protocols for handling atomicity issues, the distributed database system may enter into a situation called Blocking problem. Which of the following commit protocols can avoid Blocking problem?	Two-phase commit protocol	Three-phase commit protocol	Both of the above	None of the above	1	5	B
5	2	12	Which of the following parallel database architectures is/are mainly used by distributed database system?	Shared Memory	Shared Disk	Shared Nothing	Hierarchical	1	5	C
5	2	13	A distributed database has which of the following advantages over a centralized database?	Software cost	Software complexity	Slow Response	Modular growth	1	5	D
5	2	14	Storing a separate copy of the database at multiple locations is which of the following?	Data Replication	Horizontal Partitioning	Vertical Partitioning	Horizontal and Vertical Partitioning	1	5	A
5	2	15	Which of the following failures are unique to distributed database systems?	Failure of a site	Loss of messages	Network Partition	All the above	1	5	D
5	2	16	What are the advantages of Replication of data in Distributed database?	Avaliability, Parallelism, Increased data transfer	Availability, Parallelism, Reduced data transfer	Availability, Increased parallelism, Cost of updates	All of the above	1	5	B
5	2	17	In which of the following architectures memory bus is not a bottleneck?	Shared disk and shared nothing	Shared memory and shared nothing	All of the above	Shared memory and shared disk	1	5	A
5	2	18	A transaction Manager is which of the following	maintain a log of transaction	Maintain before and after database images	Maintain appropriate concurrency control	All of the above	1	5	D
5	2	19	Which of the following is not a promise of distributed database?	Network Transparency	Replication Transparency	Fragmentation Transparency	None of the above	1	5	D
5	3	20	All sites in a distributed database commit at exactly the same instant. TRUE/FALSE	TRUE	FALSE			1	5	B
6	2	21	Which of the following is not a NoSQL database?	SQL Server	MongoDB	Cassandra	None of the mentioned	1	6	A

6	2	22	NoSQL databases is used mainly for handling large volumes of_____data.	unstructured	structured	semi-structured	all of the mentioned	1	6	A
6	1	23	Following represent column in NoSQL .	Database	Field	Document	Collection	1	6	B
6	2	24	What is the aim of NoSQL?	NoSQL provides an alternative to SQL databases to store textual data.	NoSQL databases allow storing non-structured data.	NoSQL is not suitable for storing structured data.	NoSQL is a new data format to store large datasets.	1	6	D
6	2	25	is a online NoSQL developed by Cloudera.	HCatalog	Hbase	Imphala	Oozie	1	6	B
6	2	26	Which of the following is a wide-column store ?	Cassandra	Riak	MongoDB	Redis	1	6	A
6	2	27	A collection of mongoDB is group of	*Database*	related document	schemas	rows	1	6	B
6	2	28	What are the main components of Big Data?	MapReduce	HDFS	YARN	All of the above	1	6	D
6	1	29	A_____is probably the simplest NoSQL solution	Graph	Document	Key-Value	Column Family	1	6	C
6	2	30	Which are the example of Graph based NoSQL Model	infogrid	infinitegraph	Neo4J	All of the above	1	6	D

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INSTITUTE OF TECHNOLOGY,
MANAGEMENT & RESEARCH, NASHIK.

Department of Computer Engineering Database Management System TE-COMP

Mock End Sem Exam

SN	PRN	Name of Student	Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Q.7	Q.8	Q.9	Q.10	Q.11	Q.12	Q.13	Q.14	Q.15	Q.16	Q.17	Q.18	Q.19	Q.20	Q.21	Q.22	Q.23	Q.24	Q.25	Q.26	Q.27	Q.28	Q.29	Q.30	CO4	CO5	CO6	Total
			CO4	CO4	CO4	CO4	CO4	CO4	CO4	CO4	CO4	CO4	CO5	CO5	CO5	CO5	CO5	CO5	CO5	CO5	CO5	CO5	CO6	CO6	CO6	CO6	CO6	CO6	CO6	CO6	CO6	CO6				
			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	10	10	30
1		Snehal N. Amrutkar	1	1	1	0	1	1	1	0	0	1	1	0	1	0	1	1	1	0	0	0	1	0	1	1	0	0	1	0	1	0	7	5	5	17
2		Sakshi S Shelake	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	10	9	8	27
3		Bharat S Ghute	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	0	1	1	0	1	1	10	8	8	26
4		Tarangkumar N Patel	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	0	1	0	1	1	1	1	0	1	1	1	1	0	1	1	9	7	8	24
5		Vaishnavi V Pathak	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	9	10	29
6		Shruti K Ahire	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	10	8	9	27
7		Bhakti G Gangurde	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	10	9	8	27
8		Prajakta Gwalherkar	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	9	8	9	26
9		Mayuri A Yeole	1	1	1	1	1	1	1	0	0	1	1	0	1	0	1	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	8	6	9	23
10		Piyush D Verma	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	0	1	0	1	1	1	0	1	1	9	8	7	24
11		Robin J Sadaphule	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	0	1	0	1	1	0	1	1	1	1	0	1	10	7	7	24
12		Poonam P Jadhav	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	0	1	1	8	9	8	25
13		Swati M Dateer	1	1	1	1	0	1	0	1	1	0	1	0	1	1	1	0	1	0	1	1	0	1	0	1	1	1	1	0	1	1	7	7	7	21
14		Chadrashekhar S Dheringe	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	1	0	0	0	1	1	0	0	0	1	0	1	0	0	10	2	4	16
15		Kavita V Gaikar	0	0	0	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	10	10	25
16		Rekha J Mallah	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	8	10	8	26
17		Suvarna A Rakshe	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	10	10	30
18		Dipali R Thete	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	9	9	10	28
19		Kanchan P Aher	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1	1	0	1	0	1	1	1	1	0	1	0	1	9	7	7	23
20		Snehal G Bagul	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	0	1	0	10	8	7	25
21		Savita D Yadav	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	10	9	8	27
22		Vaibhav B Nikam	0	1	0	1	0	1	1	0	1	0	1	1	0	1	1	1	1	0	1	1	1	1	1	0	0	1	1	0	1	1	5	8	7	20
23		Harshada G Das	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	10	8	8	26
24		Ashwini J Mahajan	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1	1	0	1	1	1	0	1	1	0	1	1	0	1	9	7	7	23
25		Kuldeep N Kadu	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	10	8	9	27
26		Chetan B Amrutkar	1	0	0	0	1	0	0	0	1	1	0	1	0	1	0	1	0	1	0	0	0	1	0	0	1	0	0	1	0	1	4	4	4	12
27		Shital T Bhamare	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1	0	1	0	1	0	1	1	1	1	1	1	0	1	0	1	8	6	8	22
28		Jagruti S Nere	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	0	1	1	1	0	1	1	1	0	10	7	7	24
29		Jayashri D Pawar	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	0	1	0	1	1	1	1	1	0	0	1	0	1	0	1	8	8	6	22
30		Gaurav S Wani	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	0	1	1	0	1	1	1	0	1	1	0	1	1	0	1	8	8	7	23
31		Harshal K Karpe	1	0	1	1	1	1	1	1	1	1	1	1	0	1	0	1	0	1	1	1	0	1	0	0	1	0	0	1	0	1	9	7	4	20
32		Yogesh R Patil	1	1	1	0	1	1	1	1	0	1	1	1	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	8	8	10	26
33		Pooja R Naidu	0	1	1	1	0	0	1	0	1	0	1	0	1	0	0	0	1	0	1	0	1	0	0	0	1	1	0	0	1	0	5	4	4	13
34		Sagar Sonar	1	1	1	1	0	1	1	0	1	1	0	1	1	0	0	1	0	0	1	1	1	1	0	1	1	1	0	1	0	1	8	5	7	20
35		Rupali Anap	AB																														0	0	0	0
36		Khatale Nikita M.	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1	1	1	0	1	1	0	1	9	7	8	24
		Questionwise Max Marks	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	
		Taxonomy Level/ Competence 60% Threshold	3	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	1	2	2	2	2	2	1	2				
		CO/No. of Students Above Threshold	CO4	CO4	CO4	CO4	CO4	CO4	CO4	CO4	CO4	CO4	CO5	CO5	CO5	CO5	CO5	CO5	CO5	CO5	CO5	CO5	CO6	CO6	CO6	CO6	CO6	CO6	CO6	CO6	CO6	CO6	34	32	31	
																																	97.14	91.43	88.57	

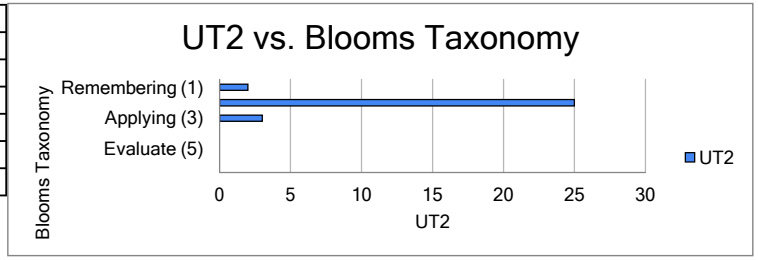
Jawahar Education Society's,

INSTITUTE OF TECHNOLOGY, MANAGEMENT & RESEARCH, NASHIK.

Department of Computer Engineering

Unit Test2 Analysis

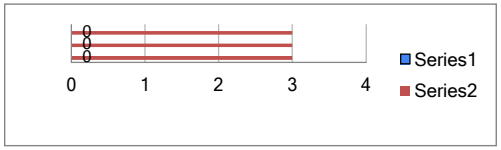
Blooms Taxonomy	UT2
Remembering (1)	2
Understanding (2)	25
Applying (3)	3
Analyzing (4)	0
Evaluate (5)	0
Create (6)	0



			Attainment	
50	% Students get score more than target	17.5	1	
60	% Students get score more than target	21	2	
70	% Students get score more than target	24.5	3	

Attainment

UT2 (Mock End Sem Exam)	CO4	34	3
	CO5	32	3
	CO6	31	3



Course Outcome	Marks
CO4	10
CO5	10
CO6	10

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(Approved by AICTE and DTE, Government of Maharashtra, Affiliated to Savitribai Phule Pune University)

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of POs and COs are evaluated

External Assessment (University Examination)

Direct Tools

Survey No 48, Gowardhan, Gangapur Road,
Nashik - 422 222. Maharashtra, India
www.jitnashik.edu.in

Jawahar Education Society's,
INSTITUTE OF TECHNOLOGY,
MANAGEMENT & RESEARCH, NASHIK.

Department of Computer Engineering

End Sem Analysis

CO - Attainment as per End Sem Result of DBMS

Students Present: 36

Course	0-9	10-24	25-39	40-49 Fail/Pass	50-59	60-100
DBMS	2	2	9	12	8	3
					>50 (Threshold)	11

Average CO Attainment is : 0.917

			Attainment
50	% Students get score more than target	18	1
60	% Students get score more than target	21.6	2
70	% Students get score more than target	25.2	3

DBMS (Final) InSem + End Sem

IN	TH	[IN+TH]	Total
16	20	36	36
13	30	43	43
11	14	25	25
7	7	14	14
2	28	30	30
15	28	43	43
19	35	54	54
26	40	66	66
13	32	45	45
9	28	37	37
10	33	43	43
26	30	56	56
20	32	52	52
10	28	38	38
9	31	40	40
23	45	68	68
12	14	26	26
2	AB	2	2
17	35	52	52
19	37	56	56
5	33	38	38
12	30	42	42
14	29	43	43
15	38	53	53
15	30	45	45
9	35	44	44
18	31	49	49
17	30	47	47
23	37	60	60
AB	8	8	8
17	39	56	56
10	28	38	38
15	37	52	52
13	28	41	41
13	19	32	32
8	14	22	22
	Total		1496
	Total Students		36
	Average Marks		41.56
	Students > Threshold		11

Jawahar Education Society's,
INSTITUTE OF TECHNOLOGY, MANAGEMENT & RESEARCH, NASHIK.

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Internal Assessment
Course Exit Survey
Indirect Tools

Survey No 48, Gowardhan, Gangapur Road,
Nashik - 422 222. Maharashtra, India
www.jitnashik.edu.in

Sr. No,	Name						
1	Snehal N. Amrutkar	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %	61-80 %
2	Sakshi S Shelake	61-80 %	61-80 %	61-80 %	61-80 %	61-80 %	61-80 %
3	Bharat S Ghute	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %
4	Tarangkumar N Patel	61-80 %	81-100 %	61-80 %	61-80 %	61-80 %	81-100 %
5	Vaishnavi V Pathak	61-80 %	61-80 %	61-80 %	61-80 %	61-80 %	61-80 %
6	Shruti K Ahire	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %
7	Bhakti G Gangurde	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %
8	Prajakta Gwalherkar	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %
9	Mayuri A Yeole	41-60 %	61-80 %	81-100 %	81-100 %	81-100 %	81-100 %
10	Piyush D Verma	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %
11	Robin J Sadaphule	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %
12	Poonam P Jadhav	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %
13	Swati M Dateer	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %
14	Chadrashekhar S Dheringe	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %
15	Kavita V Gaikar	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %
16	Rekha J Mallah	61-80 %	61-80 %	61-80 %	61-80 %	61-80 %	61-80 %
17	Suvarna A Rakshe	61-80 %	61-80 %	61-80 %	61-80 %	61-80 %	61-80 %
18	Dipali R Thete	61-80 %	61-80 %	61-80 %	61-80 %	61-80 %	61-80 %
19	Kanchan P Aher	81-100 %	81-100 %	81-100 %	61-80 %	61-80 %	61-80 %
20	Snehal G Bagul	61-80 %	61-80 %	81-100 %	81-100 %	61-80 %	61-80 %
21	Savita D Yadav	61-80 %	81-100 %	61-80 %	81-100 %	61-80 %	81-100 %
22	Vaibhav B Nikam	61-80 %	61-80 %	61-80 %	61-80 %	61-80 %	61-80 %
23	Harshada G Das	61-80 %	61-80 %	61-80 %	61-80 %	41-60 %	61-80 %
24	Ashwini J Mahajan	61-80 %	61-80 %	61-80 %	41-60 %	61-80 %	41-60 %
25	Kuldeep N Kadu	61-80 %	81-100 %	61-80 %	61-80 %	81-100 %	61-80 %
26	Chetan B Amrutkar	81-100 %	81-100 %	61-80 %	81-100 %	81-100 %	81-100 %
27	Shital T Bhamare	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %
28	Jagruti S Nere	81-100 %	81-100 %	61-80 %	61-80 %	81-100 %	61-80 %
29	Jayashri D Pawar	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %
30	Gaurav S Wani	81-100 %	81-100 %	61-80 %	81-100 %	81-100 %	61-80 %
31	Harshal K Karpe	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %	81-100 %
32	Yogesh R Patil	81-100 %	81-100 %	61-80 %	81-100 %	81-100 %	81-100 %
33	Pooja R Naidu	61-80 %	61-80 %	81-100 %	61-80 %	61-80 %	61-80 %
34	Sagar Sonar						
35	Rupali Anap						
36	Khatale Nikita M.						

1. Design E-R Model for given requirements and convert the same into database tables

2. Use database techniques such as SQL & PL/SQL

3. Use modern database techniques such as NOSQL

4. Explain transaction Management in relational database System

5. Describe different database architecture and analyses the use of appropriate architecture in real time environment

6. Students will be able to use advanced database Programming concepts Big Data – HADOOP

Rating	Scale	CO1	CO2	CO3	CO4	CO5	CO6
4	**81-100 %**	19	22	18	20	20	18
3	**61-80 %**	13	11	15	12	12	14
2	**41-60 %**	1	0	0	1	1	1
1	**No to all**	0	0	0	0	0	0
	Total	**33**	**33**	**33**	**33**	**33**	**33**

AL	Value
50	17
60	20
70	23

Average Rating

Scale	CO1	CO2	CO3	CO4	CO5	CO6
81-100 %	76	88	72	80	80	72
61-80 %	39	33	45	36	36	42
41-60 %	2	0	0	2	2	2

No to all	0	0	0	0	0	0	
Rounded Average	**46**	**48**	**46**	**47**	**47**	**46**	**Avg Attainment**
Attainment	3	3	3	3	3	3	**3**

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Co-PO-PSO Mapping Final CO Attainment

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INSTITUTE OF TECHNOLOGY, MANAGEMENT & RESEARCH, NASHIK.

Department of Computer Engineering

CO-Attainment

Course Attainment	Internal Assessment					University		Internal %
	UT1	UT2	CA1		Avg	INSEM	ENDSEM	
CO1	3		3		3	3	3	
CO2	3		3		3			
CO3	3		3		3			
CO4		3	3		3			
CO5		3	3		3			
CO6		3	3		3			
	Average				3	0.917		
	Weightage (Direct)				20	80		
	CO Attainment for Direct				1.3336			

*Note Please do not put 0 or - to indicate blank (Just leave as it is)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	3									2	2	2
CO2	3	3		2	2								2	2	
CO3	3	3	3						2				2	2	2
CO4	2	1	2										1		
CO5	1	3		3									1		
CO6	3	2		2	3								2	2	2
Avg	2.5	2.5	2.7	2.5	2.5				2				1.7	2	2
CO-PO Attainment	1.1	1.1	1.2	1.1	1.1	0	0	0	0.9	0	0	0	0.8	0.9	0.9
Indirect	2.5	2.5	2.7	2.5	2.5	0	0	0	2	0	0	0	1.7	2	2
Final CO-PO Attainment	1	1	2	1	1	0	0	0	1	0	0	0	1	1	1
Gap	1.5	1.5	0.7	1.5	1.5	0	0	0	1	0	0	0	0.7	1	1
			Rounded Effect										Rounded Effect		

Course Incharge Program Coordinator HoD