



# SITAM



## SATYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Near RTO Office, Gajularega, Vizianagaram-535003, Andhra Pradesh, India

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Telephone No: 9676788811, 8978812341/2

EAMCET CODE: **SGVP**

JNTUGV CODE: **B6**

SBTET CODE: **649**

### PROJECT EVALUATION

#### R20 REGULATION :

Major Project (Project - Project work, seminar and internship in industry):

In the final semester, the student should mandatorily register and undergo internship and in parallel he/she should work on a project with well-defined objectives. At the end of the semester the candidate shall submit an internship completion certificate and a project report. A student shall also be permitted to submit project report on the work carried out during the internship. The project report shall be evaluated with an external examiner.

Evaluation: The total marks for project work 200 marks and distribution shall be 60 marks for internal and 140 marks for external evaluation. The supervisor assesses the student for 30 marks (Report: 15 marks, Seminar: 15 marks). At the end of the semester, all projects shall be showcased at the department for the benefit of all students and staff and the same is to be evaluated by the departmental Project Review Committee consisting of supervisor, a senior faculty and HOD for 30 marks. The external evaluation of Project Work is a Viva-Voce Examination conducted in the presence of internal examiner and external examiner appointed by the University and is evaluated for 140 marks.

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### Guidelines to prepare B.Tech project documentation

Font :	1. Chapter Names	-	16 TNR (bold) all caps
	2. Headings	-	14 TNR (bold) all caps
	3. Subheadings	-	14 TNR (bold) Title case
	4. Sub – sub headings	-	12 TNR (bold) Title case
	5. Body of Project	-	12 TNR
	6. Text in Diagrams	-	12 TNR (all lower case)
	7. Diagrams / Table headings / Fig. Headings	-	12' TNR Title case
	8. If any text		12' TNR (Title case)

Spacing : 1. 2 line spacing between heading and body text.

2. 1.5 line spacing in body text.

3. New paragraphs start with single tab.

Margins :	Left 1.5'	Right 1.0'
	Top 1.0'	Bottom 1.0'

Page numbers:	position	Bottom, Middle
1. Front Pages		Small Roman Numbers
		(Excluding title page, Certificate page, Acknowledgement page)
2. Body pages		1,2,3 .....
3. Annexure		1,2,3.....
		(Separate for each Annexure)

Pages : Size : A4 paper Color: White

Documentation : Spiral Binding

Front Pages	Page 1	Title Page
	Page 2	Certificate
	Page 3	Company Certificate
	Page 4	Acknowledgement
	Page 5	Contents
	Page 6	Abstract
	Page 7	List of Figures/ tables/ screens
	Page 8	Symbols & Abbreviations



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**Abstract**

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**List of Screens**

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## 6. TESTING & VALIDATION

Introduction

Design of test cases and scenarios

Validation

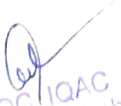
Conclusion

## 7. CONCLUSION :

First Paragraph	-	Project Conclusion
Second Paragraph	-	Future enhancement

## REFERENCES :

1. Author Name, Title of Paper/ Book, Publisher's Name, Year of publication
2. Full URL Address

  
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A Project report on

**<<Title of the project>>**

BACHELOR OF TECHNOLOGY

IN

**<<Electronics and Communication Engineering>>**

Submitted By

**<< Name of the Student >>**

**<< Hall Ticket No >>**

Under the Guidance of

**<< Guide Name >>**

**<< Designation >>**

**<< College Logo >>**

**Department of Electronics and Communication Engineering,**

**<<Your College Name in CAPS>>**

**(Affiliated to Jawaharlal Nehru Technological University,Gurajada,VZM)**

**2024**

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## CERTIFICATE

This is to certify that the project report titled << Project Title >> is being submitted by << Student Name >>, bearing <<H.T. No>>, in I B.Tech IV II semester *Electronics and Communication Engineering* is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

<< Internal Guide >>

<< HOD>>

<< External >>

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### DEPARTMENT OF H&BS

### ENGLISH CLUB ACTIVITIES

### SKILL CLUB ACTIVITIES

### SCLDC(SITAM COMMUNICATION LEADERSHIP DEVELOPMENT CLUB

NAME OF THE EVENT	SKILL DEVELOPMENT
DATE	22-03-2024
NO. OF PARTICIPANTS	55

A skill is the learned ability to act with determined results with good execution often within a given amount of time, energy, or both. Skills can often be divided into domain-general and domain-specific skills. For example, in the domain of work, some general skills would include time management, teamwork and leadership, self-motivation and others, whereas domain-specific skills would be used only for a certain job. Skill usually requires certain environmental stimuli and situations to assess the level of skill being shown and used.

A skill may be called an art when it represents a body of knowledge or branch of learning, as in the art of medicine or the art of war. Although the arts are also skills, there are many skills that form an art but have no connection to the fine arts.

People need a broad range of skills to contribute to the modern economy. A joint ASTD and U.S. Department of Labor study showed that through technology, the workplace is changing, and identified 16 basic skills that employees must have to be able to change with it. Three broad categories of skills are suggested and these are technical, human, and conceptual. The first two can be substituted with hard and soft skills, respectively.

  
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### DEPARTMENT OF H&BS

### ENGLISH CLUB ACTIVITIES

### SCLDC(SITAM COMMUNICATION LEADERSHIP DEVELOPMENT CLUB

NAME OF THE EVENT	Developing Communication
DATE	10-04-2024
NO. OF PARTICIPANTS	90

Many theories have been proposed to describe, predict, and understand the behaviors and phenomena of which communication consists. When it comes to communicating in business, we are often less interested in theory than in making sure our communications generate the desired results. But in order to achieve results, it can be valuable to understand what communication is and how it works.

At the centre of our study of communication is the relationship that involves interaction between participants. This definition serves us well with its emphasis on the process, which we'll examine in depth across this text, of coming to understand and share another's point of view effectively.

Next comes the word sharing. Sharing means doing something together with one or more people. You may share a joint activity, as when you share in compiling a report; or you may benefit jointly from a resource, as when you and several co-workers share a pizza. In communication, sharing occurs when you convey thoughts, feelings, ideas, or insights to others. You can also share with yourself (a process called intrapersonal communication) when you bring ideas to consciousness, ponder how you feel about something, or figure out the solution to a problem and have a classic "Aha!" moment when something becomes clear.

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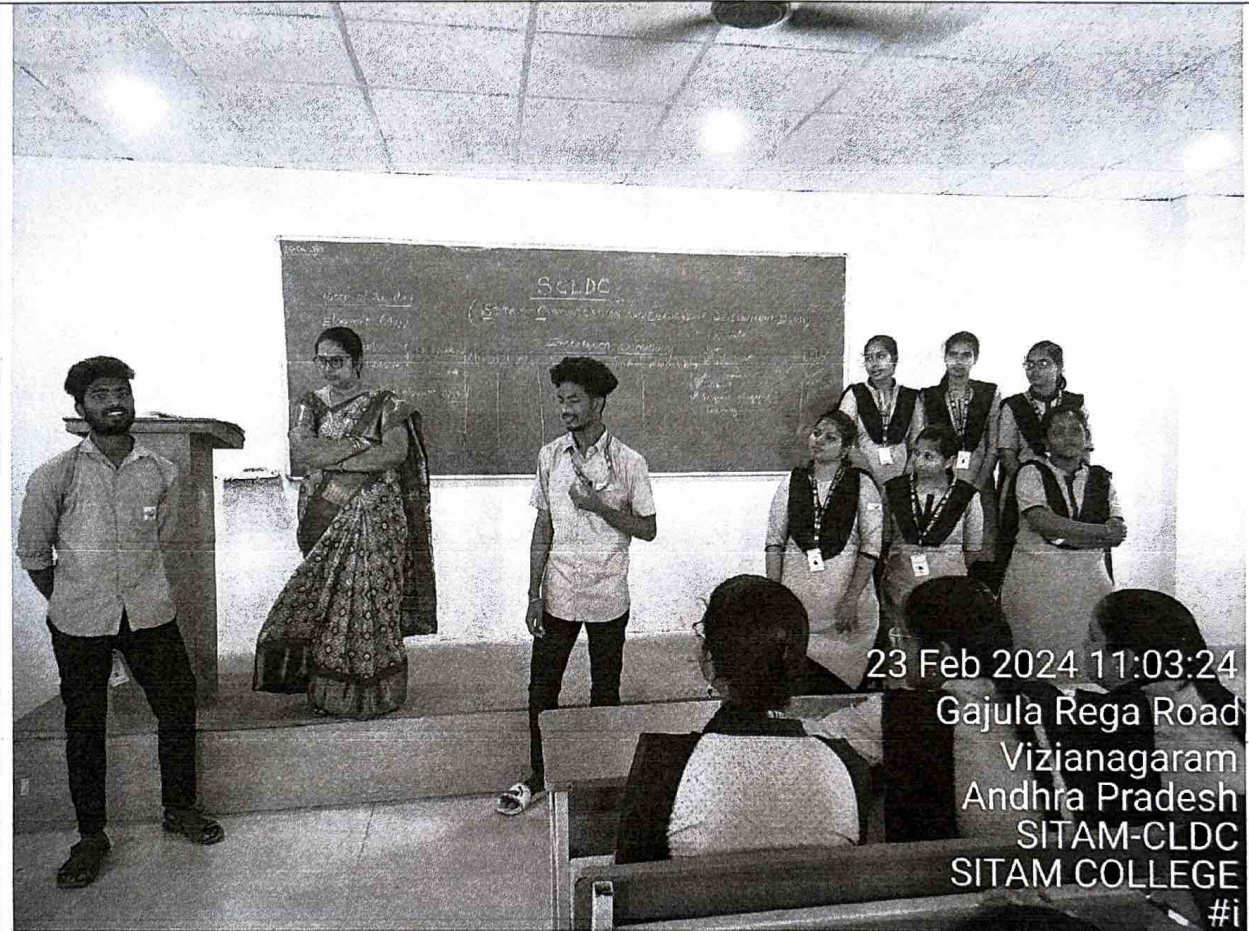
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### DEPARTMENT OF MBA

### BUSINESS CLUB ACTIVITIES

NAME OF THE EVENT	Team Building Activities
DATE	24-01-2024
NO. OF PARTICIPANTS	73
<p>Give the team or teams a list of 15 people who are on a yacht. Tell them that the yacht developed a leak and is sinking fast. There is only one lifeboat and it will accommodate only nine people — not one more can fit and there are no more life boats or life jackets.</p> <p>The group must then come to an agreement as to which of 15 people gets to go in the lifeboat and be saved. However, they must also list those they save in order of importance — because if they run out of food and water the “less important people” will have to be dumped overboard. Of course, this is often the more difficult job.</p> <p>The key for this game is to make the 15 people on the list as controversial as possible. For example include a priest, minister, rabbi or all three! A pregnant woman, powerful leaders from both major political parties, an ex-convict, a male physician and a female one, a political lobbyist, people of different ethnicities, etc — the more emotionally charged the list the better. Give them a period of time to work out the problem. Make it long enough to get into heated discussion but short enough to be pressed for time. I usually allow six to ten minutes. The discussion afterward should be in depth and include everyone on the team. You can facilitate with questions. Such as ...</p> <ul style="list-style-type: none"><li>• What problems did you experience?</li><li>• How did you resolve these issues?</li><li>• Was it the best way?</li></ul> <p>How else could you have resolved your differences?</p> <ul style="list-style-type: none"><li>• Why did these problems occur in the first place?</li></ul>	

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## DEPARTMENT OF CIVIL ENGINEERING

## Ulektz Utilization

Mrs. M. BHARGAVI

Satya Institute of Technology and Management

## MAHANTHI BHARGAVI

Faculty at Satya Institute of Technology and Management

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## My Resources



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My Videos



My Courses



My Tests



My Events



My Meetings

Mrs. K. GAYATRI KIRAN

Satya Institute of Technology and Management

## K. GAYATRI KIRAN

Educators at Satya Institute of Technology and Management

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## Department of Mechanical Engineering

### ULEKTZ UTILIZATION

#### 1. JAGADISH K E

The screenshot shows the ULEKTZ portal for K.E. Jagadish, an Assistant Professor at Satya Institute of Technology and Management. The page displays a search bar, a navigation menu with options like My Books, My Videos, My Courses, My Tests, My Events, and My Meetings, and a central area for My Resources. The user's profile information is visible at the top, including their name, title, and contact details.

#### 2. D CHAITANYA

The screenshot shows the ULEKTZ portal for D. Chaitanya, an Assistant Professor at Satya Institute of Technology and Management. The page displays a search bar, a navigation menu with options like My Books, My Videos, My Courses, My Tests, My Events, and My Meetings, and a central area for My Resources. The user's profile information is visible at the top, including their name, title, and contact details.

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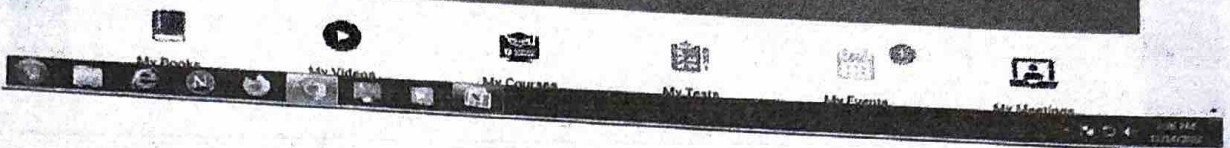
Assistant Professor@ Satya Institute of Technology and Management  
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# SITAM

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# Databases and Database Management System

  
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# Goals

- comprehensive introduction to
  - the design of databases
  - database transaction processing
  - the use of database management systems for applications

  
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# Topics

- the entity-relationship (E/R) and relational data models
- approaches to database design
- abstract query languages (relational algebra)
- SQL
- issues in database design and use (views, integrity constraints, triggers, transactions, and security)
- physical data organization
- query processing and optimization
- transaction processing
- advanced topics (data warehouses, data mining, temporal databases, and XML) *[time permit]*



# Book

1. Textbook: Databases and Transaction Processing – An Application-Oriented Approach by Lewis, Bernstein, and Kifer (Addison Wesley)
2. Additional reading:
  1. A first course in Database Systems by *Ullman & Widom*
  2. Database systems the complete book by *Garcia-Molina, Ullman, & Widom*

# Organizational issues

- Class web site:  
*<http://www.cs.nmsu.edu/~tson/classes/fall03-482>*
- 5 weeks: First mid-term (September 18)
- 11 weeks: Second mid-term (October 28)
- December 8: Final
- Office hours: 4-5 pm Tues & Thus. I will need to go home right after the class on Tues, please do not try to ask questions after Tue's class 😊
- Use of emails: questions, notifications
- Homework submission – web based



# Questions

- What is a database?
- What is its use?
- What is required?
- How does it work?

  
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# Example – Credit Card Use

- Sweep the card
- Wait for a few seconds
- Get approval
- Take the good
- End of month: sending the payment or in debt

## Parties involved:

- Self
- Salesperson

## People involved:

- Self
- Sales company
- Credit card company



# Transactions

- Buyer gets the good
- Seller gets the money
- The money route: buyer → credit card company → seller
- The credit card company
  - *has* the information of the buyer (credit card holder) and the seller,
  - *bills* the buyer, and
  - *pays* the seller

**The company has a database of customers**



# What is a Database?

- American Heritage Dictionary: a *collection of data* organized for *easy* and *speed* of search and retrieval



# What is a Database?

- Related to data, perhaps lot of them
  - same characteristics
  - over long period of time (months, years, ...)
- Pertinent to people who use the data
- Might or might not be of interest to other

# Definition and Properties

- **Definition:** A database is a collection of data central to some enterprise that is managed by a Database Management System (**DBMS**)
- **Properties:**
  - Essential to operation of enterprise (contains the only record of enterprise activity)
  - Valuable to the enterprise (Historical data can guide enterprise strategy, might be of interest to other enterprises)
  - Reflection of the state of the enterprise (database is persistent)



# DBMS

- Specialized software manages databases
  - create new databases
  - modify existing databases (update data, create reports for different purposes)
- Supports
  - high-level access language (e.g. SQL)
  - application describes database accesses using that language.

# DBMS

- Provides users with
  - Persistent storage: like file system but much more flexible
  - Programming interface: accessing and modifying data through a query language
  - Transaction management: concurrent access to data



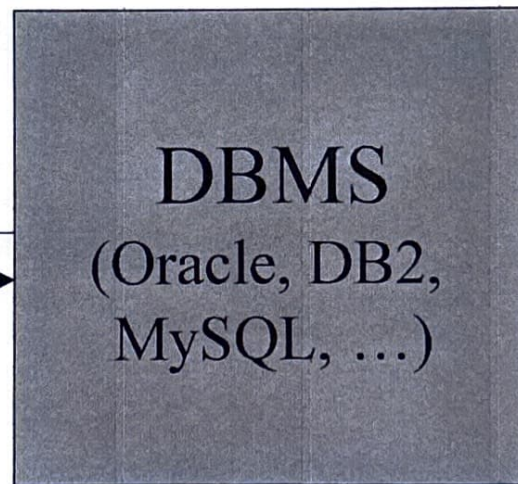
# Overview of a DBMS

Admin



Results

Modify/  
Retrieval  
(Command)



Data  
-  
base

S

Users

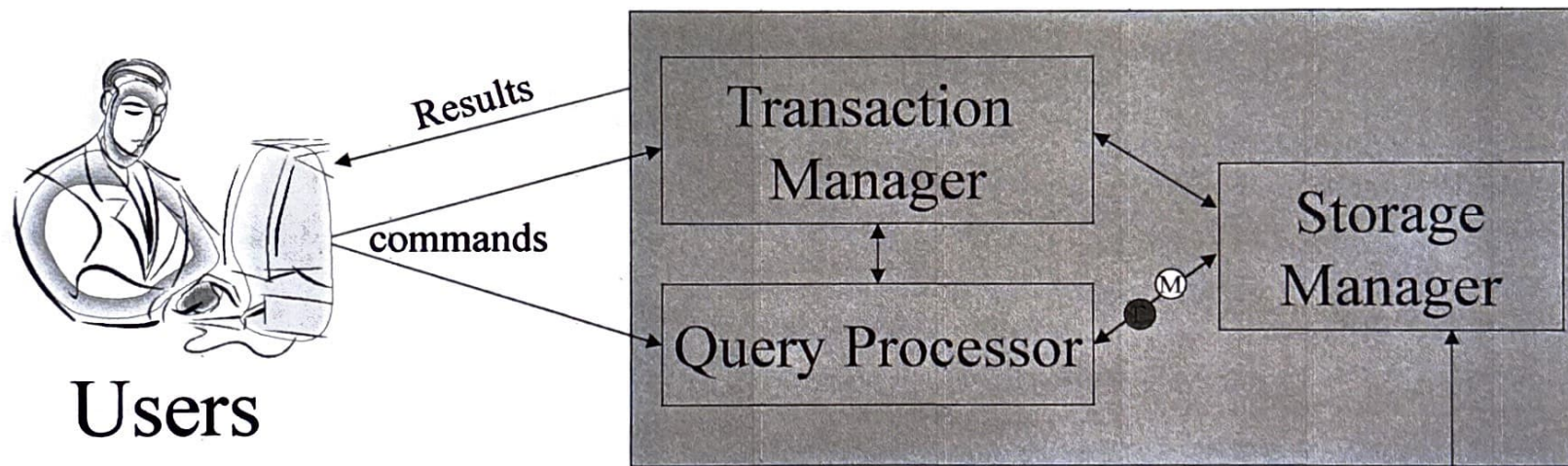


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# Overview of a DBMS (Cont.)



- **Storage manager:** uses OS techniques in memory management (buffer, page, read/write pages)
- **Query processor:** receive queries, create query plans, send to execution engine ● primitive commands (index, file, record requests), which will be satisfied by the corresponding manager Ⓜ
- **Transaction manager:** maintains the consistency of the database (control read from/write to a database, concurrency execution, recovery)



# Overview of a DBMS (Cont.)

- Database administrator:
  - set-up databases
    - creates new schema
    - modifies existing schema
    - manages users (authorization, permission, etc.)
  - uses Data Definition Language – a specialized language for creating and defining database schema