LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

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L.B. REDDY NAGAR, MYLAVARAM, NTR DIST., A.P.-521 230.
hodcse@lbrce.ac.in, cseoffice@lbrce.ac.in, Phone: 08659-222933, Fax: 08659-222931

DEPARTMENT OF COMPUTER SCIENCE &ENGINEERING

Activity based Learning Methods A.Y.2023-24, ODD semesters

Sl.No	Semester	Faculty	Subject Name	Activity	Date
1	VII	Dr.M.Sita Ram	Block Chain Technologies	Seminar	21-10-2023
				Seminar	02-09-2023
2	VII	Dr.B.Siva Rama Krishna	Cloud Computing	Hands-On Session	26-10-2023
		Dr.K.Naga Prasanthi		Hands-On Session	27-10-2023
3	VII	P.M.Kamala Kumari	Software Project Management	Seminar/ Group Discussion	09-10-2023
		P.Veera Swamy		Seminar	16-10-2023
4	VII	P.Naga Babu	Devops Lab	Case Study	09-10-2023
5	V	R.Ashok Kumar	Computer Networks	Brainstorming with case study	25-08-2023
		Dr.K.N.Prasanthi			27-09-2023
6	V	B.Swathi	Machine Learning	Seminar	14-10-2023
		Sk.Johny Basha		Seminar	19-10-2023
7	V	Dr.S.Nagarjuna Reddy	Theory of Computation	Flipped Class room	15-09-2023
		N.V.Naik			12-09-2023
8	V	G.V.Suresh / Ch.NagaMani	Principles of Artificial Intelligence	Seminar	08-12-2023
9	III	Dr.S.Nagarjuna Reddy	FSD-1	Student Team Achievement Division	21-08-2023
10	III	T.N.V.S.Praveen Kumar	Discrete Mathematics	Seminar	01-11-2023
11	III	G.V.Rajya Lakshmi	Database Management Systems	Seminar /RolePlay	05-09-2023
		P.Sarala		Role Play	10-10-2023
12	III	Dr.D.Venkata Subbaiah / Dr.Ch.V.Narayana	Computer Organisation	Seminar /RolePlay	09-11-2023
13	III	B.Usha Rani	Objected Oriented Programming	Seminar /RolePlay	01-12-2023
		N.Srinivasa Rao			29-09-2023
14	III	D.Anil Kumar	Data structures	Seminar	01-11-2023
		M.Swathi/O.V.Siva		Student Team acheivement Division	30-11-2023

Activity based Learning Methods **A.Y.2023-24, EVEN semesters**

Sl.No	Semester	Faculty	Subject Name	Activity	Date
1	VI	B.Swathi	Compiler Design	Seminar	06-01-2024
2	VI	P.Veera Swamy	Information Retrieval systems	Case study – Real World Scenarios	31-01-2024
3	VI	Dr.K.Devi Priya	Data Analytics and Visualization Lab	Certification based Activity	27-02-2024
4	VI	Dr.K.Devi Priya	Big Data Analytics	Seminar	27-02-2024
		Dr.K.Devi Priya		Project-based Activity	27-03-2024
		D.Anil Kumar		Seminar	10-02-2024
5	VI	B.Usha Rani	Server-Side scripting	Case Study	21-03-2024
6	IV	T.Vineetha	Software Engineering	Student Team Achievement Division	21-03-2024
		T.Vineetha		Seminar and Role Play	10-02-2024
7	IV	Dr.M.Sita Ram	Design and Analysis of Algorithms	Seminar and Role Play	10-01-2024
8	IV	B.Usha Rani	Universal Human Values-2	Self-Exploration	24-01-2024

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Course Details:

Course Name:	Compiler Design
Course Code:	20CS18
Branch/Sem/Section:	CSE /VI /B
Academic Year:	2023-24
Faculty Name:	B.Swathi
Topic Selected:	Recursive Predictive Parser,Shift Reduce Parser
Date of Activity:	06/01/2024 ,20/01/2024

1. **Selection of activity:**

In my course, to conduct an active learning work, I plan to conduct **"Seminar".** This helps students in achieving objectives with improving individual presentation and analysis skills.

2. **List of outcomes associated with activity:**

In my course the following outcomes are associated with the selected activity.

- Improve individual / team work skills, communication & report writing skills with ethical values.

3. **Objectives of activity:**

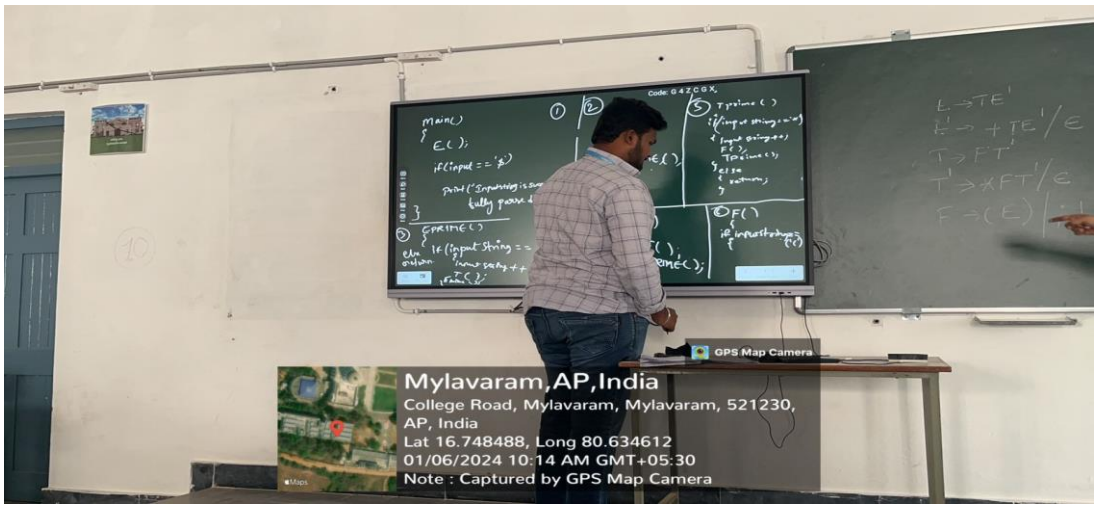
The main objectives of this activity are listed as follows. A learner able to:

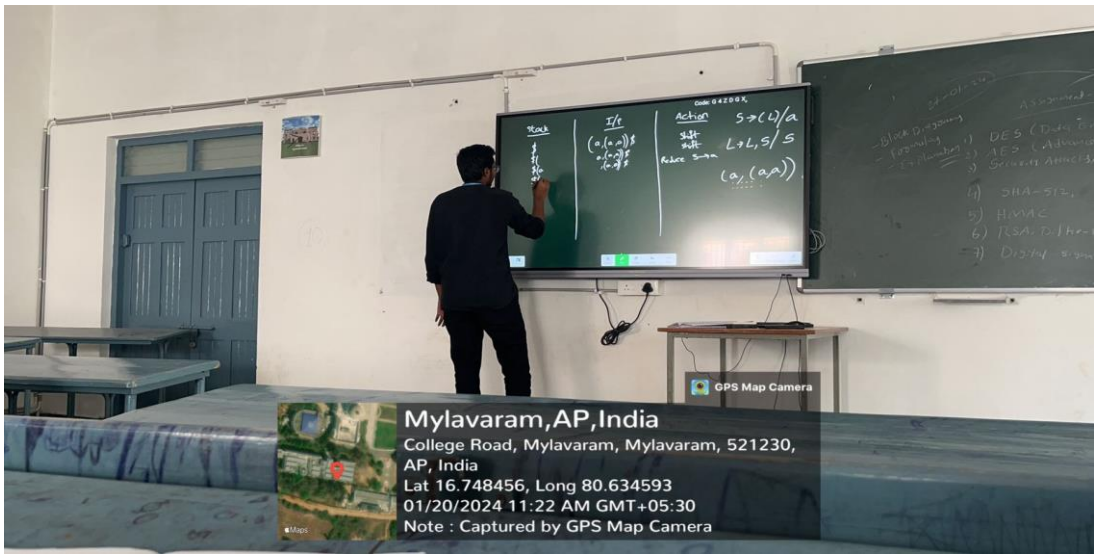
- Develop interpersonal communication.
- Acquire specific knowledge on the topic.

4. **Details of participants in Seminar / Role-Play**

S.no	Roll number	Name	Topic
1	22765A0511	P. Venuanjaneyulu	Recursive Predictive Parser
2	22761A0597	K.Bhavannarayana	Shift Reduce Parser

Activity Photos





Course Instructor **Head of the Department**

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Course Details:

Course Name:	Machine Learning
Course Code:	20ADO4
Branch/Sem/Section:	CSE /V /B
Academic Year:	2023-24
Faculty Name:	B.Swathi
Topic Selected:	Ada Boost, Gradient Boost
Date of Activity:	14/10/23 and 18/10/23

1. **Selection of activity:**

In my course, to conduct an active learning work, I plan to conduct **"Seminar".** This helps students in achieving objectives with improving individual presentation and analysis skills.

2. **List of outcomes associated with activity:**

In my course the following outcomes are associated with the selected activity.

- Improve individual / team work skills, communication & report writing skills with ethical values.

3. **Objectives of activity:**

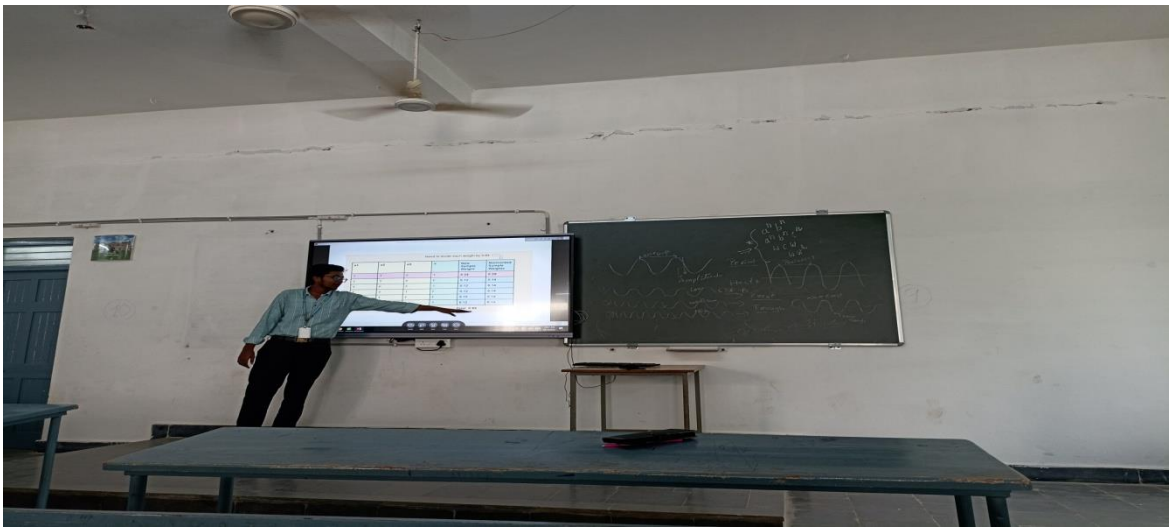
The main objectives of this activity are listed as follows. A learner able to:

- Develop interpersonal communication.
- Acquire specific knowledge on the topic.

4. **Details of participants in Seminar / Role-Play**

S.no	Roll number	Name	Topic
1	21761A0597	K.Bhavannarayana	Ada Boost
2	21761A0587	G.Mercy	Gradient Boost

Activity Photos:



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Course Details:

Course Name:	Database Management Systems
Course Code:	20CS07
Branch/Sem/Section:	CSE /III /A
Academic Year:	2023-24
Faculty Name:	G.V.Rajya Lakshmi
Topic Selected:	Entity-Relationship Diagrams, Keys, Constraints
Date of Activity:	05-09-2023

1. **Selection of activity:**

In my course, to conduct an active learning work, I plan to conduct **"Seminar and Roleplay".** This helps students in achieving objectives with improving individual presentation and analysis skills.

2. **List of outcomes associated with activity:**

In my course the following outcomes are associated with the selected activity.

- Draw E-R Diagrams for the given case studies
- Improve individual / team work skills, communication & report writing skills with ethical values.

3. **Objectives of activity:**

The main objectives of this activity are listed as follows. A learner able to:

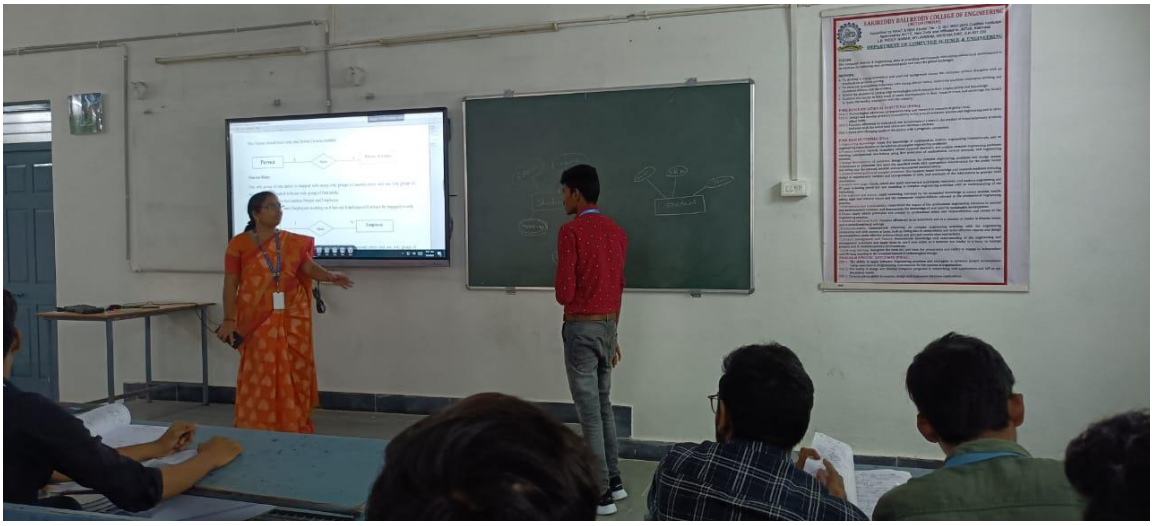
- Develop interpersonal communication.
- Develop and contribute towards a common goal.
- Acquire specific knowledge on the topic.

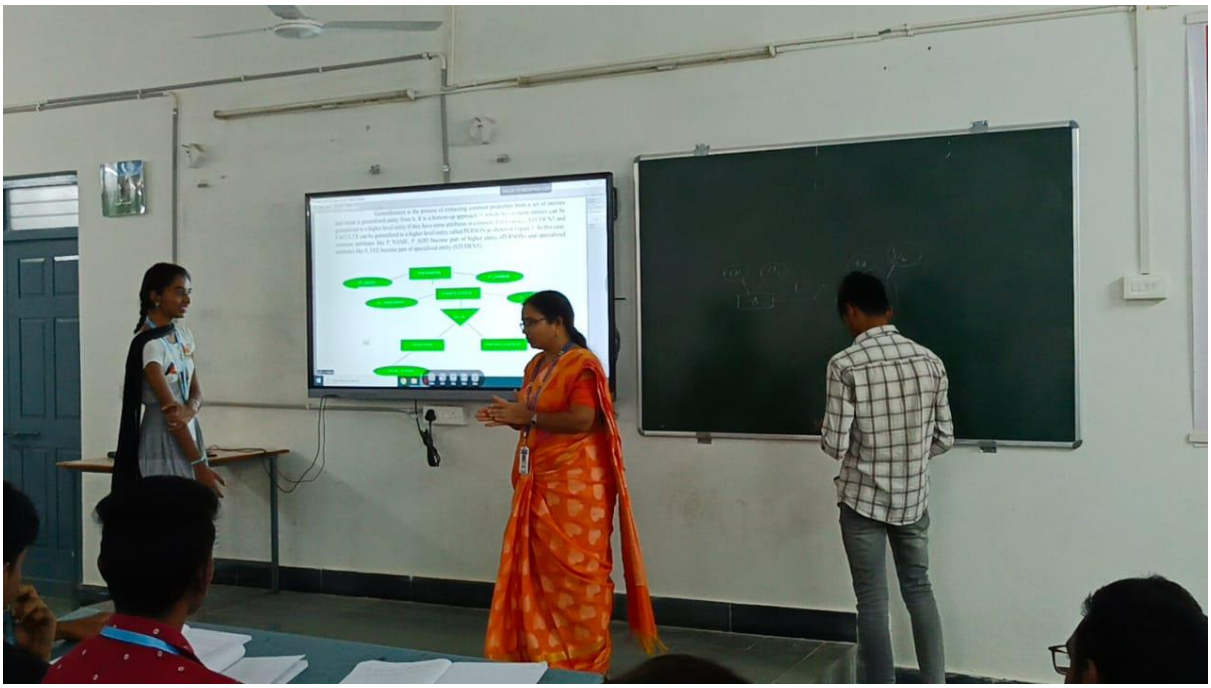
4. **Details of participants in Seminar / Role-Play**

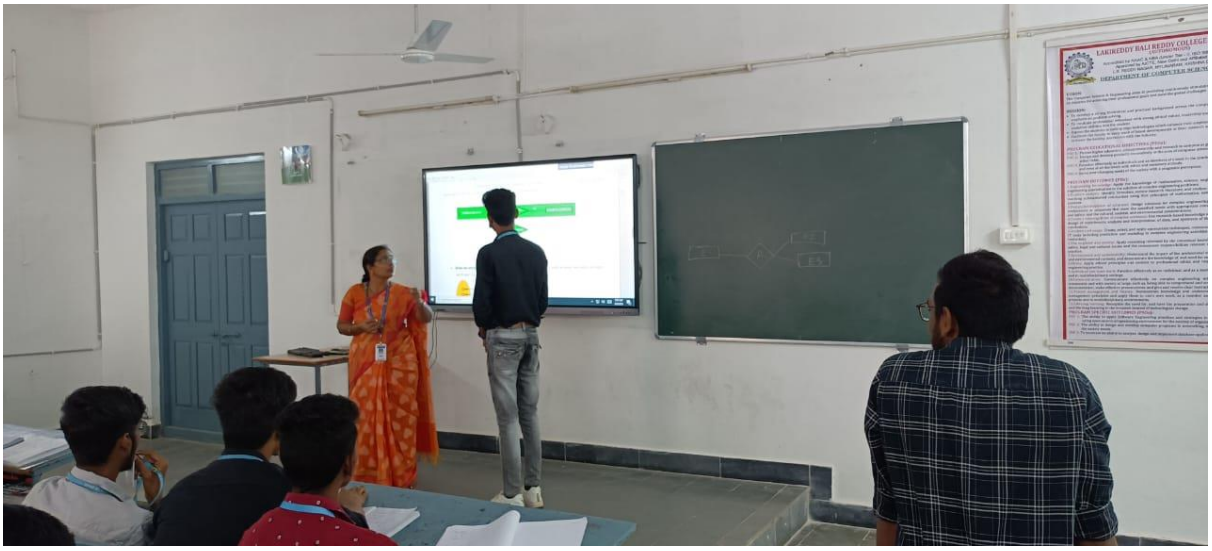
S.no	Roll number	Name	Topic
1	22761A0505	B Harshitha	Types of relationships
2	22761A0509	Challa Yuva Prasanthi	Examples of multi value attributes

3	22761A0525	K.Charitha	Super key / Candidate key / Primary Key
4	22761A0529	Kothamasu Thanuja	Specialization / Generalization
5	22761A0531	Linga Sindhu	Aggregation , Ternary relationship
6	22761A0537	Mathi Praveen	Domain type Constraints
7	22761A0557	Torlapati Chandu	Identifying primary key / Foreign keys
8	22761A0561	Vadapalli.Sparjan	Transforimg ER diagram into tables
9	22761A0564	V.Venkata Gopi Krishna	Recursive relationship models
10	22761A0510	Ch.Kranthi sri	Hospital management E-R diagram

5. Activity Photos:







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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Course Details:

Course Name:	Information Retrieval Systems
Course Code:	20CS21
Branch/Sem/Section:	CSE /VI /C
Academic Year:	2023-24
Faculty Name:	P. Veera Swamy
Topic Selected:	Information Extraction Techniques
Date of Activity:	31-01-2024

1.Selection of activity:

During the **Information Retrieval Systems** course, I planned to conduct a one activity-based learning task with students that is **"Case Studies and Real-World Scenarios".** This activity helps the students to examine how information retrieval systems operate in different contexts, such as:

- Analysing search engines like Google or Bing to understand how they rank results and personalize content.
- Examining the use of information retrieval in specific domains, like e-commerce or healthcare, to see how different retrieval techniques are used to meet business needs.

2.List of outcomes associated with this activity:

Case studies and real-world scenarios in Information Retrieval Systems (IRS) provide practical insights into how these systems function in real environments and help learners and practitioners understand their impact and limitations. Outcomes from these case studies and scenarios can be invaluable in guiding best practices, system design, and user experience improvements.

Here's a list of typical outcomes from case studies and real-world scenarios in IRS:

1. Improved Understanding of User Behavior

Case studies can shed light on how users interact with information retrieval systems, providing insights into:

- Common user queries and patterns.
- User expectations and preferences.

- Behavior influenced by personalized search or recommender systems.

2. Identification of System Limitations and Challenges

Real-world scenarios often reveal areas where information retrieval systems may struggle, including:

- Inability to handle complex queries or unusual terms.
- Problems with scalability and performance under heavy loads.
- Bias in search results or recommendations due to skewed data or algorithms.

3. Development of Best Practices

Case studies help develop best practices for designing and maintaining information retrieval systems, including:

- Effective indexing and query processing techniques.
- Strategies for optimizing system performance and scalability.
- Approaches to ensure data privacy and security.

4. Enhanced Retrieval Models and Techniques

Outcomes from real-world scenarios can lead to improved retrieval models and techniques, such as:

- Refinements to existing models like TF-IDF, BM25, or neural-based models.
- New methods for integrating contextual and semantic information into search results.
- Enhanced learning-to-rank approaches for better document ordering.

5. Improved System Usability and User Experience

Case studies focused on user interaction can lead to outcomes that improve system usability, including:

- Designing intuitive user interfaces for search and retrieval.
- Incorporating user feedback to refine search results and recommendations.
- Addressing accessibility concerns to ensure all users can interact with the system effectively.

6. Implementation of Real-World Solutions

Case studies provide concrete examples of how IRS is implemented in various industries, leading to outcomes such as:

- Successful use cases in e-commerce, healthcare, legal research, and other domains.
- Solutions that demonstrate the effectiveness of certain retrieval techniques in specific contexts.
- Examples of how IRS can be integrated into larger systems or workflows.

7. Identification of Ethical Considerations and Bias

Real-world scenarios highlight ethical issues and potential biases in IRS, leading to outcomes like:

- Understanding the impact of biased data on search results and recommendations.

- Identifying ethical concerns related to user privacy, data security, and content moderation.
- Developing guidelines to ensure fairness and transparency in information retrieval systems.

8. New Opportunities for Innovation

Case studies can uncover areas for innovation and further research, such as:

- Emerging technologies that could enhance information retrieval, like AI and machine learning.
- New applications for IRS in diverse fields, from education to entertainment.
- Opportunities to create hybrid models that combine multiple retrieval techniques.

3.Objectives of Activity:

The objectives of using case studies and real-world scenarios in the context of Information Retrieval Systems (IRS) are varied, focusing on enhancing practical understanding, promoting problem-solving skills, and fostering innovation. Here is a comprehensive list of objectives:

1. Practical Application of Theoretical Concepts

Case studies and real-world scenarios enable learners and practitioners to apply theoretical concepts from information retrieval in practical situations.

2. Deepening Understanding of User Behavior

By examining real-world scenarios, the objective is to understand user behaviour in interaction with information retrieval systems.

3. Identifying and Addressing System Limitations

An objective of case studies is to uncover limitations or challenges within IRS, such as scalability issues, biases, or performance bottlenecks.

4. Promoting Critical Thinking and Problem-Solving

Case studies often present complex problems that require innovative solutions.

5. Fostering Collaboration and Teamwork

Case studies and real-world scenarios are often best tackled in groups, promoting collaboration and teamwork.

6. Enhancing System Design and Usability

The goal is to use insights from case studies to improve system design, ensuring that IRS is user-friendly and meets user needs.

7. Encouraging Ethical Awareness

Real-world scenarios can highlight ethical considerations in IRS, such as user privacy, data security, or content bias.

8. Stimulating Innovation and Creativity

This objective aims to encourage participants to think creatively and explore new ideas that could lead to advancements in IRS technology and applications.

9. Providing Real-World Context for Learning

An important objective of using case studies is to provide a real-world context for learning.

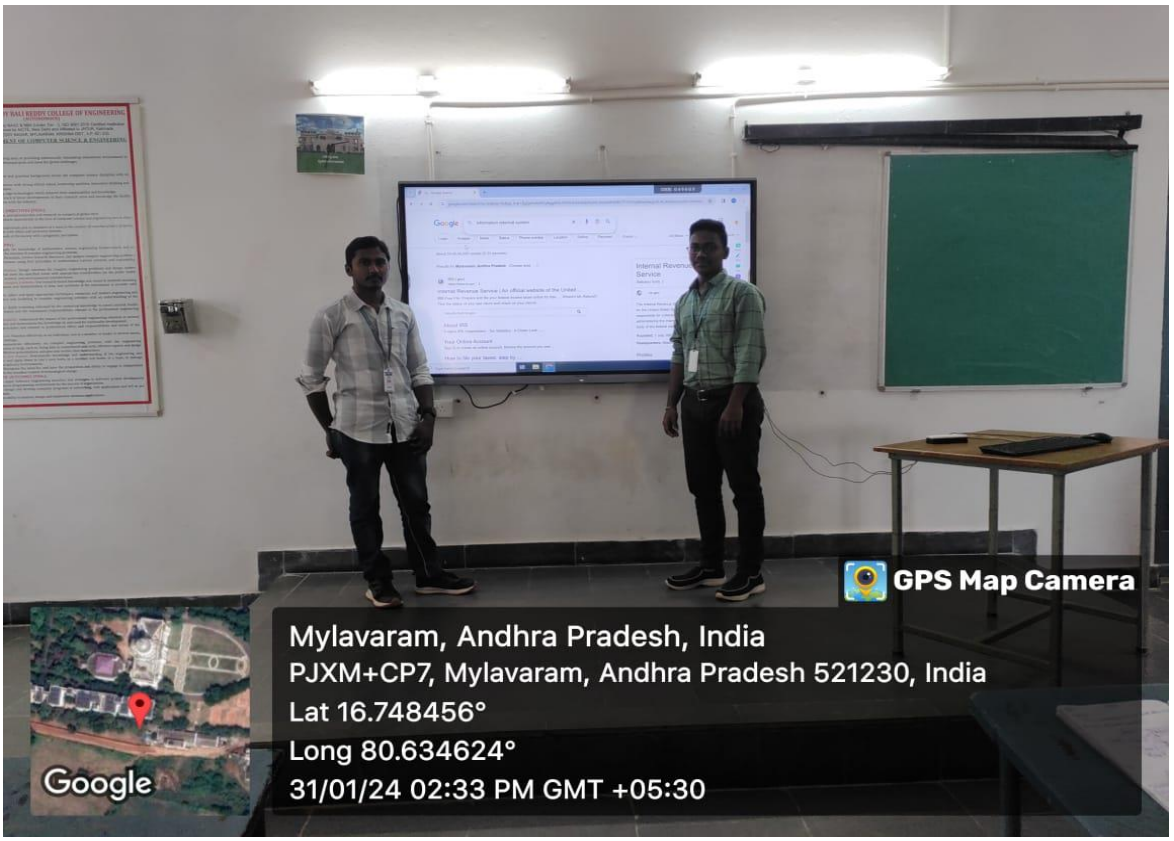
10. Demonstrating the Impact of Information Retrieval Systems

Through case studies and real-world scenarios, participants can see the broader impact of IRS on various industries and aspects of society.

4.Details of participants in Case Studies and Real-World Scenarios

S.no	Roll number	Name	Topic
1	21761A05D3	ADDANKI BINDU	She was practically showing how to Information Extracting
2	21761A05D4	AKULA RAJENDRA KUMAR	He was practically showing how to Information Extracting
3	21761A05D7	APPIDI MEGHANA SAI	She was explaining the Information Extracting techniques
4	21761A05G0	KATHOJU MANOJ	He was explaining the Information Extracting techniques

1. **Activity Photos:**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PJXM+CP7, Mylavaram, Andhra Pradesh 521230, India
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Google


GPS Map Camera
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Long 80.63668°
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Course Instructor **Head of the Department**

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Course Details:

Course Name:	Software Engineering
Course Code:	20IT01
Branch/Sem/Section:	CSE /IV /A
Academic Year:	2023-24
Faculty Name:	Ms. T. Vineetha
Topic Selected:	Presentation on Software Development Life cycle(SDLC), Characteristics of Software, Software Process models, Waterfall Model etc.., Importance of software Engineering.
Date of Activity:	10-02-2024

1. **Selection of activity:**

In my course, to conduct an active learning work, I plan to conduct **"Seminar and Roleplay".** This helps students in achieving objectives with improving individual presentation and analysis skills.

2. **List of outcomes associated with activity:**

In my course the following outcomes are associated with the selected activity.

- Student can Understand the concept of Software Development Life cycle(SDLC) and working process of SDLC.
- Improve individual / team work skills, communication & report writing skills with ethical values.

3. **Objectives of activity:**

The main objectives of this activity are listed as follows. A learner able to:

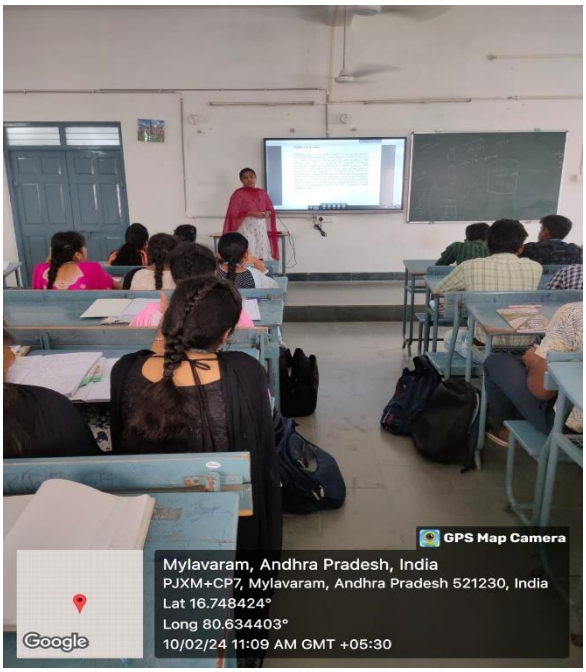
- Develop interpersonal communication.
- Develop and contribute towards a common goal.
- Acquire specific knowledge on the topic.

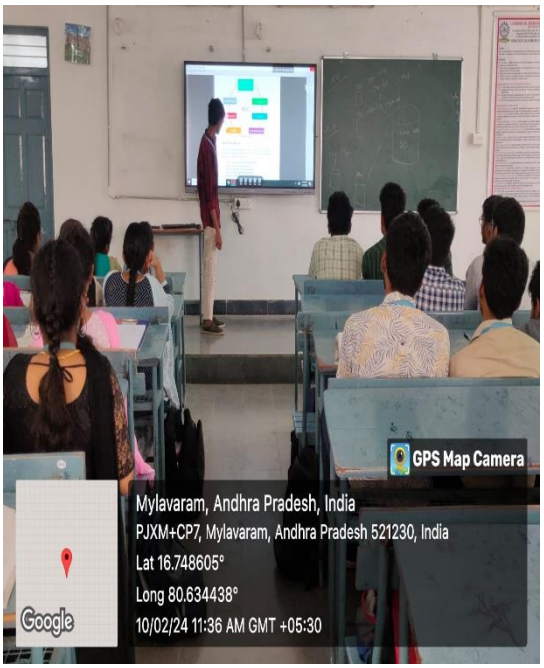
4. **procedure to conduct an activity:**

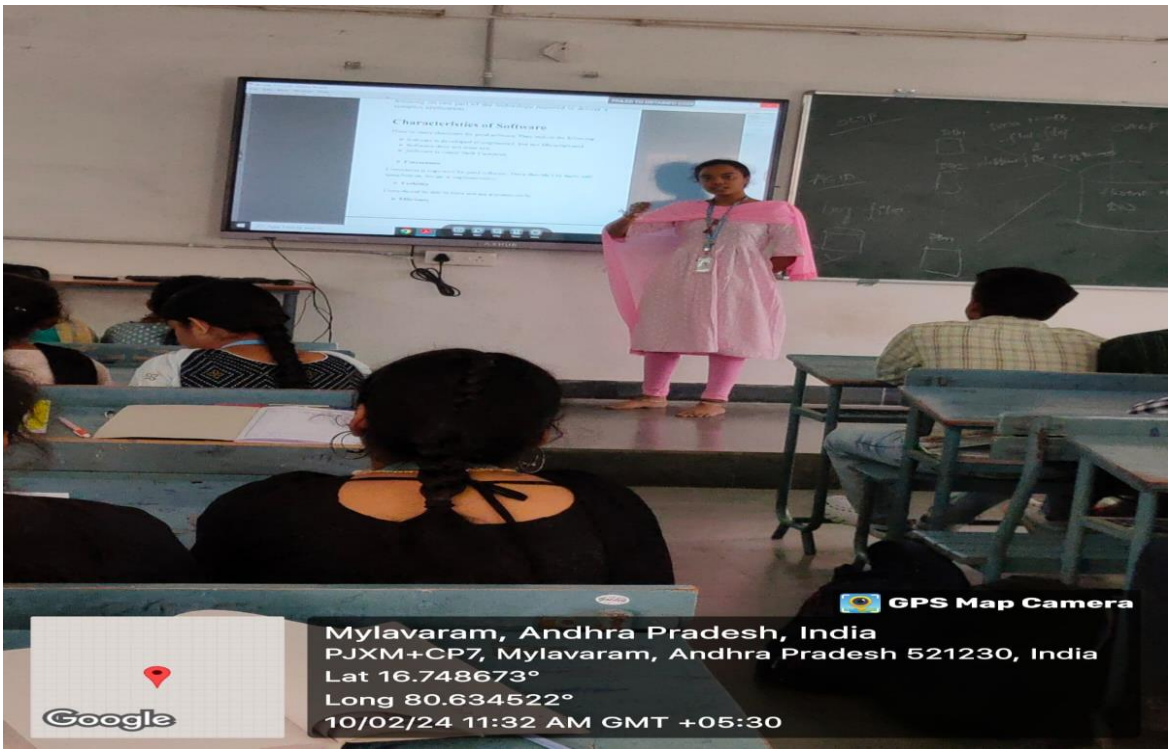
I used the following steps, to organize the activity in the class.

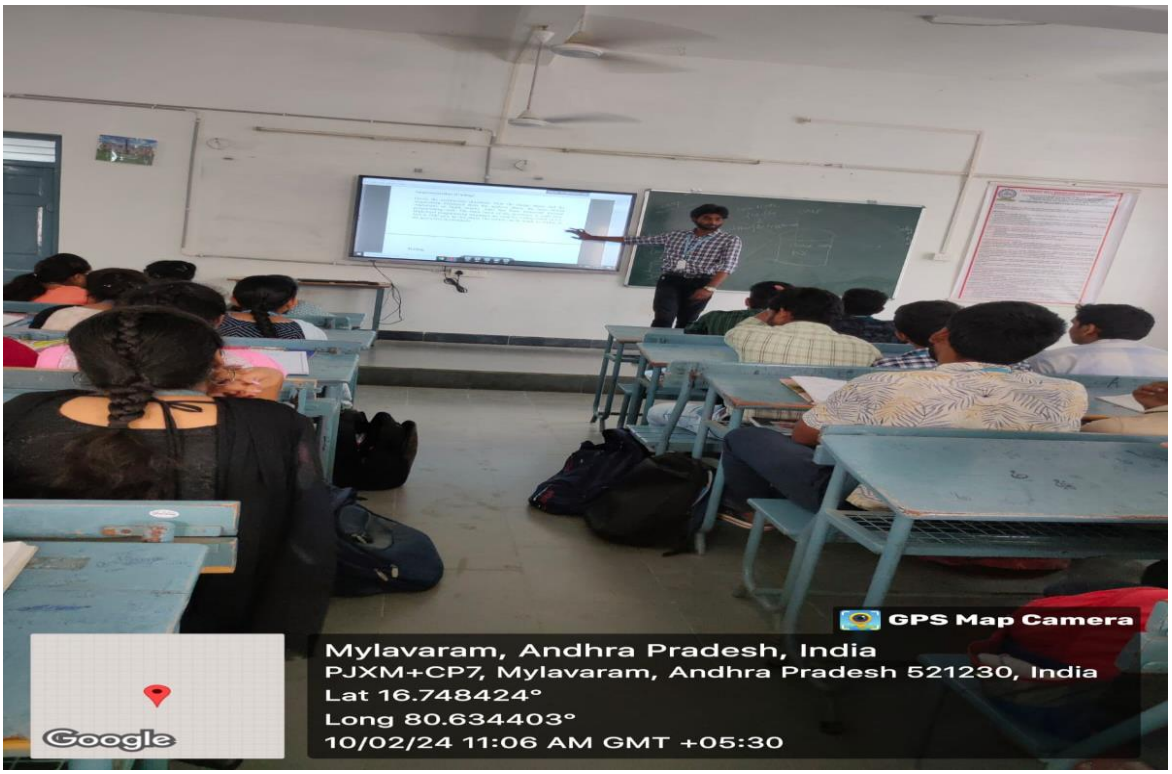
For each Student, We allotted one specific topic to give a presentation about Software Development Life cycle(SDLC), Characteristics of Software, Software Process models, Waterfall Model etc.., Importance of software Engineering.

5. Activity Proofs:









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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Course Details:

Course Name:	Software Engineering
Course Code:	20IT01
Branch/Sem/Section:	CSE /IV /A
Academic Year:	2023-24
Faculty Name:	Ms. T Vineetha
Topic Selected:	Constructing UML diagrams like Class, Sequence, Use case, Component, deployment diagrams for the given case studies like Railway Reservation system, Online food ordering system, Online Shopping system etc..
Date of Activity:	21-03-2024

1. **Selection of activity:**

In my course, to conduct a collaborative work, I plan to conduct **"Student-Team-Achievement-Divisions (STAD)".** The advantage of using STAD is students work collectively in achieving objectives by safeguarding the norms of the group.

2. **List of outcomes associated with collaborative activity:**

In my course the following outcomes are associated with the selected collaborative activity (STAD).

- Constructing Sequence Diagram for Online food ordering system
- Improve individual / teamwork skills, communication & report writing skills with ethical values.

3. **Objectives of Collaborative activity:**

The main objectives of collaborative activity are listed as follows. A learner able to:

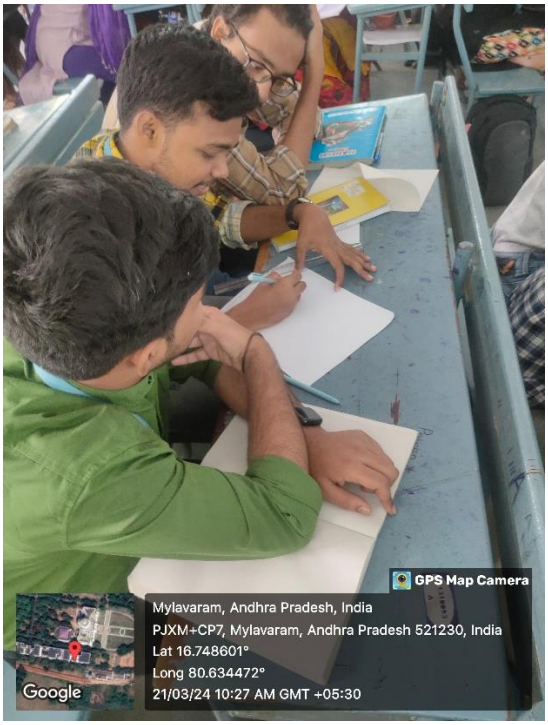
- Develop interpersonal communication.
- Develop and contribute towards a common goal.
- Acquire specific knowledge on the topic.

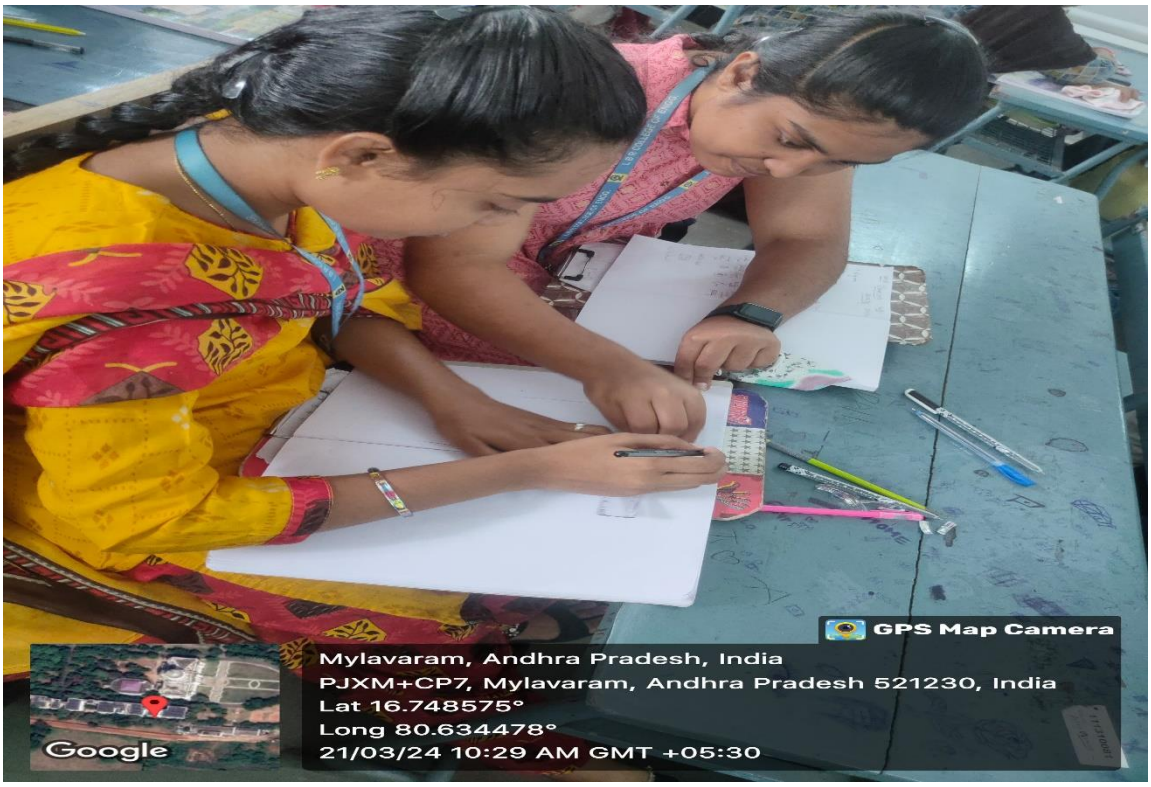
4. **procedure to conduct an activity:**

I used the following steps, to organize the Student-Team-Achievement-Divisions (STAD) activity in the class.

For each Student, We allotted one specific topic to Design uml diagrams (Class, Sequence, Use case, Component, deployment diagrams) for the given case studies like Railway Reservation system, Online food ordering system, Online Shopping system etc..

5. Activity Proofs:

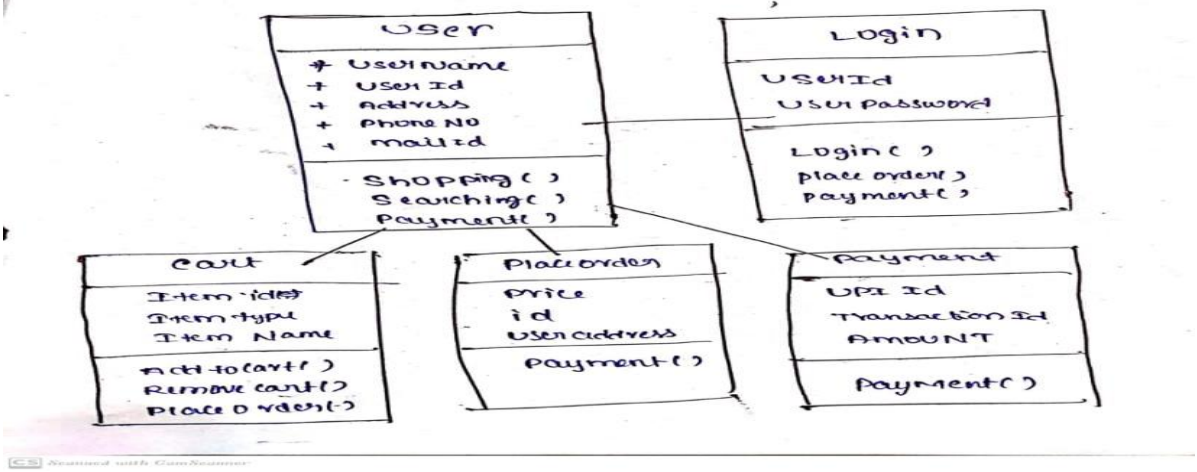


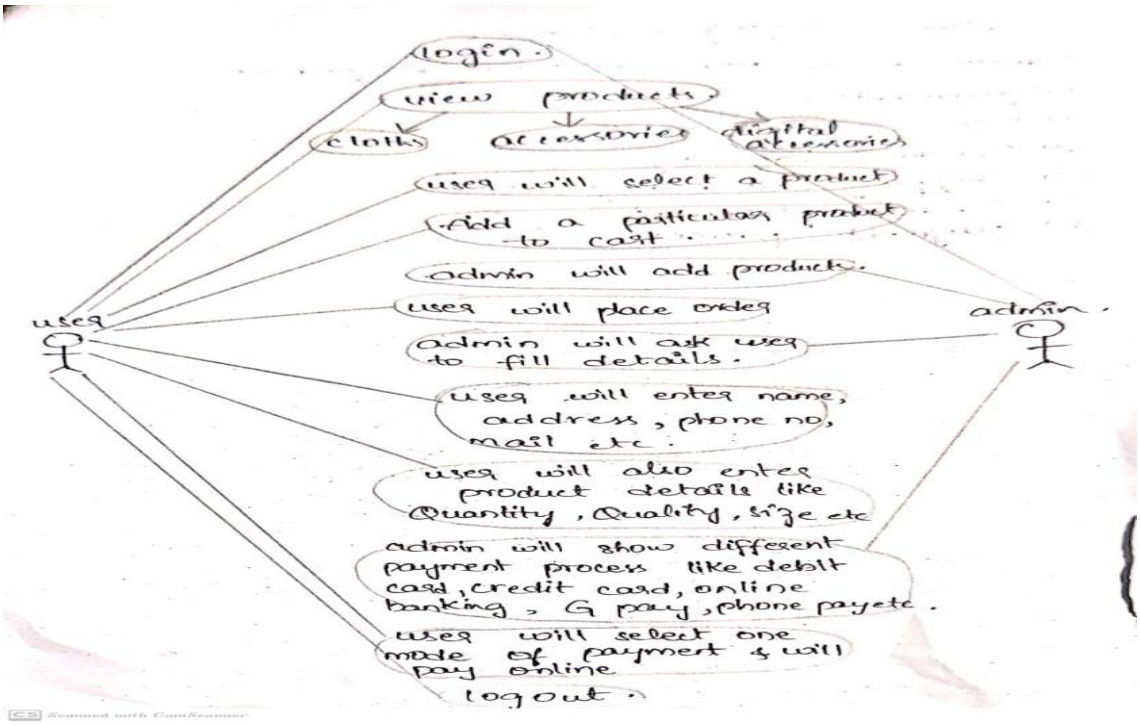


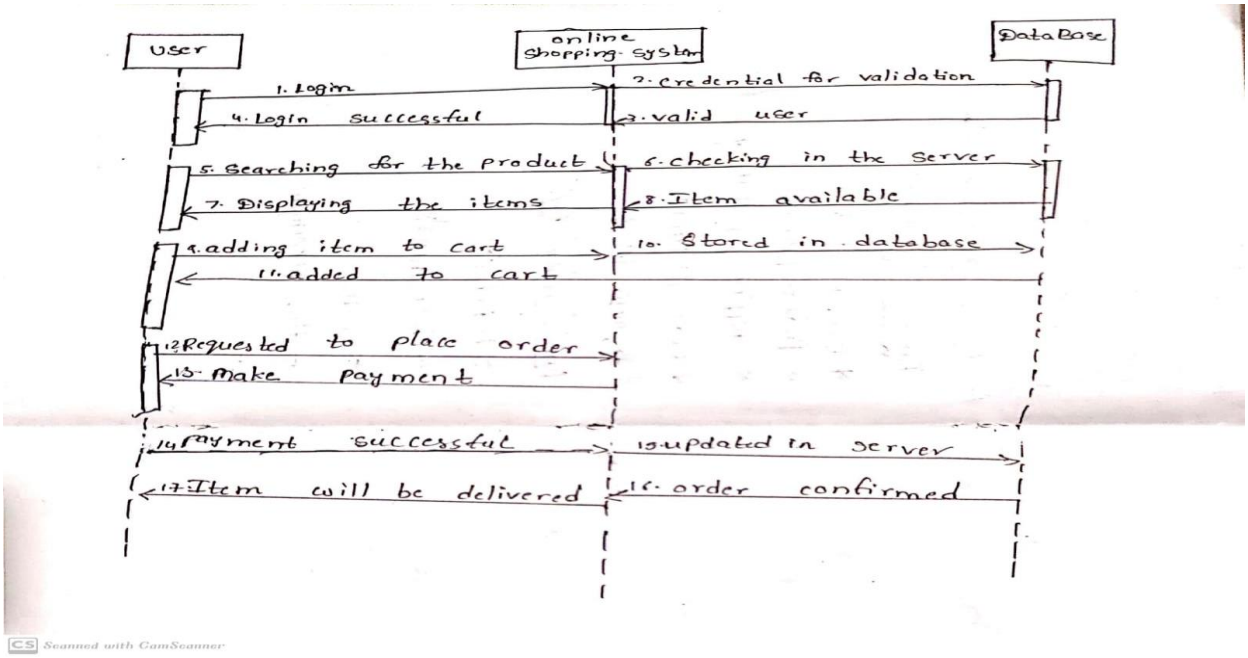
ROLL NO – 33, 24, 22.

Requirement gathering :–

1. User Registration
2. search process
3. shopping cart management
4. Place order
5. Payment process







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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Course Details:

Course Name:	Big Data Analytics
Course Code:	20CS19
Branch/Sem/Section:	CSE /III /C
Academic Year:	2023-24
Faculty Name:	D. Anil kumar
Topic Selected:	SQOOP, ZOOKEEPER
Date of Activity:	10-02-2024 and 23-03-2024

1. **Selection of activity:**

In my course, to conduct an active learning work, I plan to conduct **"Seminar".** This helps students in achieving objectives by improving individual presentation and analysis skills.

2. **List of outcomes associated with activity:**

In my course, the following outcomes are associated with the selected activity.

- Demonstrate Moves data between relational databases and Hadoop.
- To coordinate distributed processes and services

3. **Objectives of activity:**

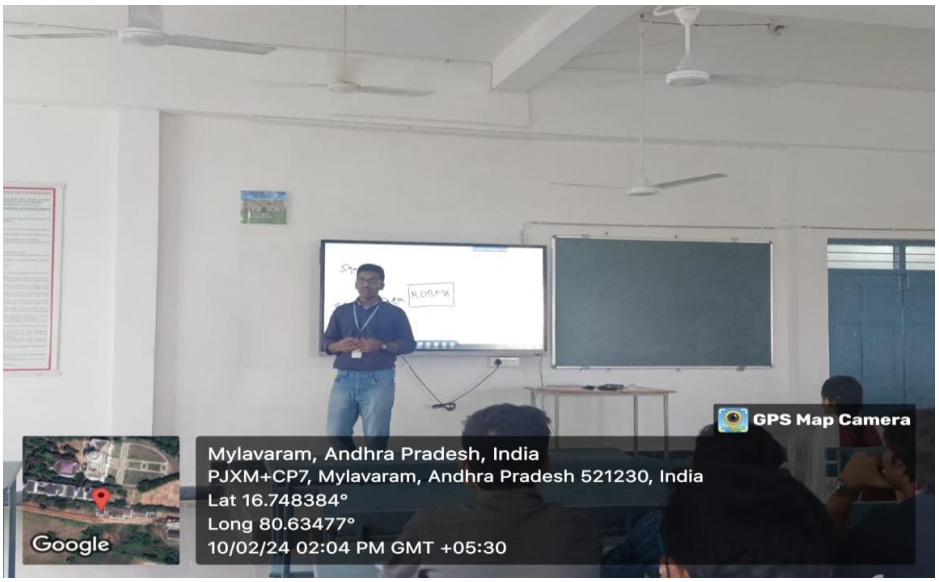
The main objectives of this activity are listed as follows. A learner able to:

- Acquire specific knowledge on the Export and Import statements.
- Performs full load as well as incremental load operations.
- It provides a centralized service for configuration information, naming, synchronization, and group services over large clusters.

4. **Details of participants in Seminar / Role-Play**

S.no	Roll number	Name	Topic
1	21761A05G0	Kathoju Manoj	Sqoop
2	21761A05F2	Gade Lakshmi Prasanna	ZOOKEEPER

5. Activity Photos:



Course Instructor **Head of the Department**

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Course Details:

Course Name:	Discrete Mathematical Structures
Course Code:	20CS04
Branch/Sem/Section:	CSE /III /A,B,C
Academic Year:	2023-24
Faculty Name:	T N V S Praveen
Topic Selected:	Algebraic Structures
Date of Activity:	1-11-2023,09-11-2023

1. **Selection of activity:**

In my course, to conduct an active learning work, I plan to conduct **"Seminar".** This helps students in achieving objectives by improving individual presentation and analysis skills.

2. **List of outcomes associated with activity:**

In my course, the following outcomes are associated with the selected activity.

- Demonstrate various algebraic structure methods.
- Finding Chromatic number for graph problems.

3. **Objectives of activity:**

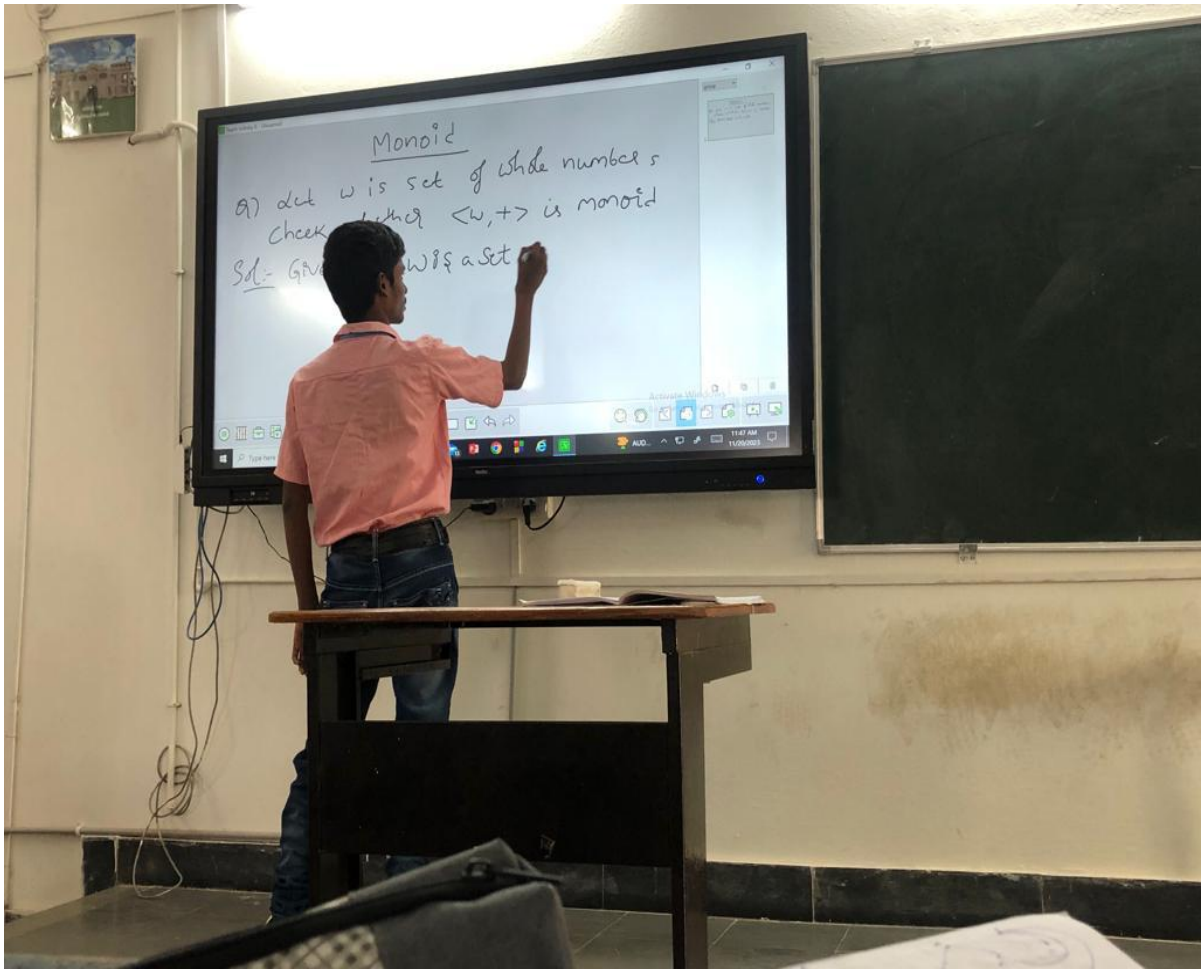
The main objectives of this activity are listed as follows. A learner able to:

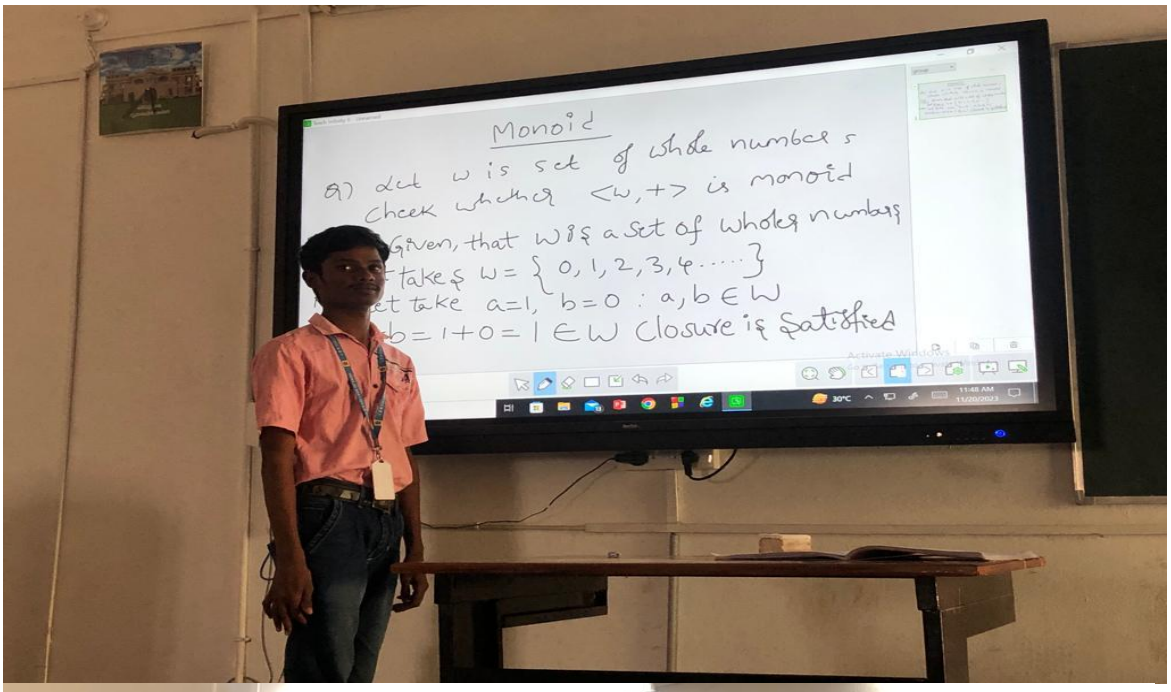
- Learn various algebraic structures and its properties.
- Learn various graph structures.
- Acquire specific knowledge on the topic.

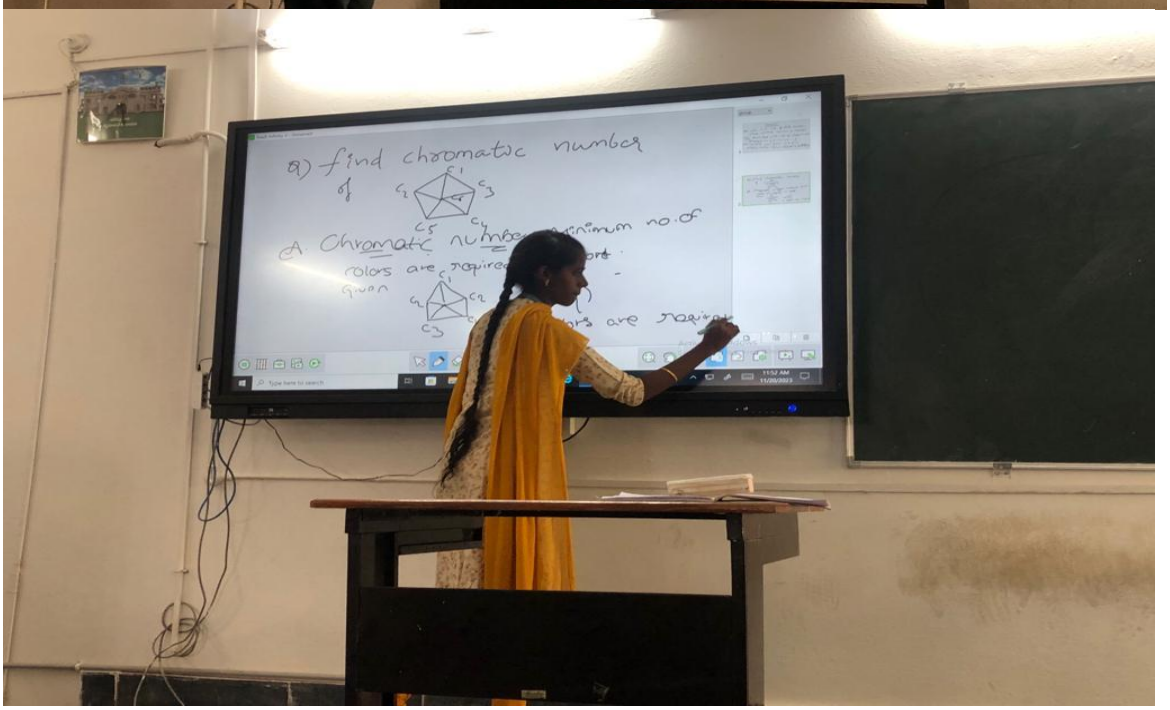
4. Details of participants in Seminar / Role-Play

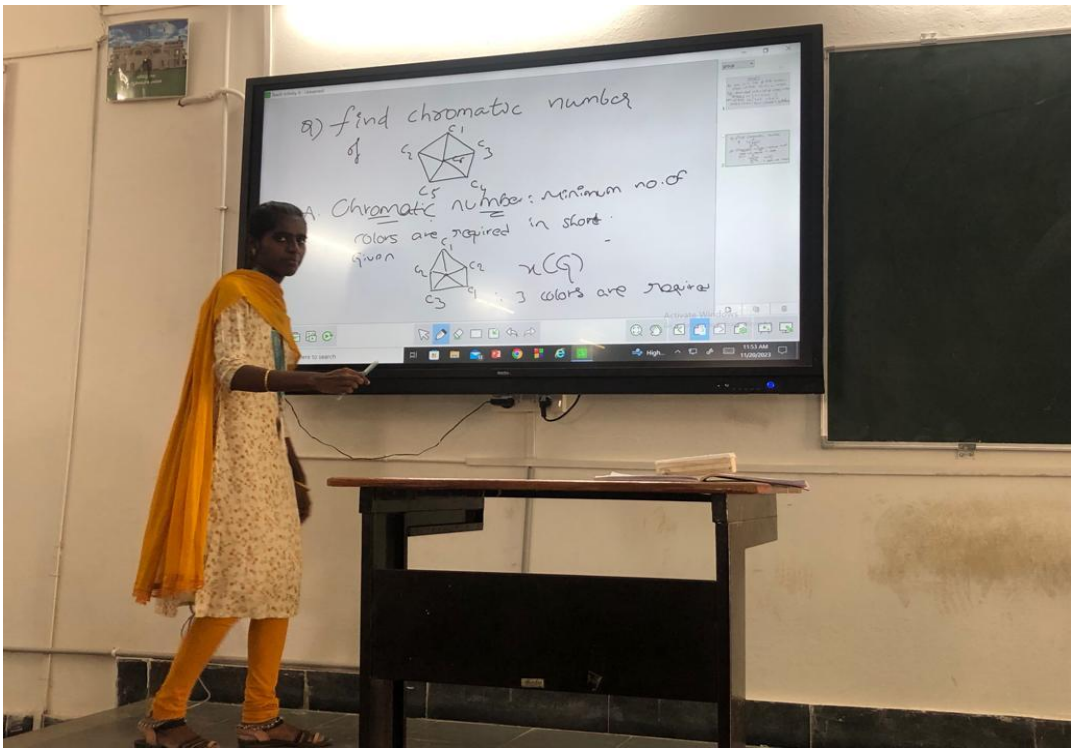
S.no	Roll number	Name	Topic
1	22761A0567	Arumalla Srivani	Monoid
2	22761A0582	Goda Vamsi Krishna	Chromatic Number

5. Activity Photos:




Monoid
Q) Let W is set of whole numbers
Check whether <W,+> is monoid
Given, that W is a set of whole numbers
take W = {0,1,2,3,4.....}
et take a=1, b=0 : a,b ∈ W
b=1+0=1 ∈W Closure is Satisfied


Q) find chromatic number
of
A. Chromatic
colors are
Given



Course Instructor **Head of the Department**

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Course Details:

Course Name:	Data Structures
Course Code:	20CS03
Branch/Sem/Section:	ECE /III /B
Academic Year:	2023-24
Faculty Name:	D. Anil kumar
Topic Selected:	Sorting Techniques
Date of Activity:	1-11-2023,09-11-2023

1. **Selection of activity:**

In my course, to conduct an active learning work, I plan to conduct **"Seminar".** This helps students in achieving objectives by improving individual presentation and analysis skills.

2. **List of outcomes associated with activity:**

In my course, the following outcomes are associated with the selected activity.

- Demonstrate various sorting techniques and compare their computational complexities in terms of space and time.
- Write the algorithms for various operations on binary trees, binary search trees and AVL trees.

3. **Objectives of activity:**

The main objectives of this activity are listed as follows. A learner able to:

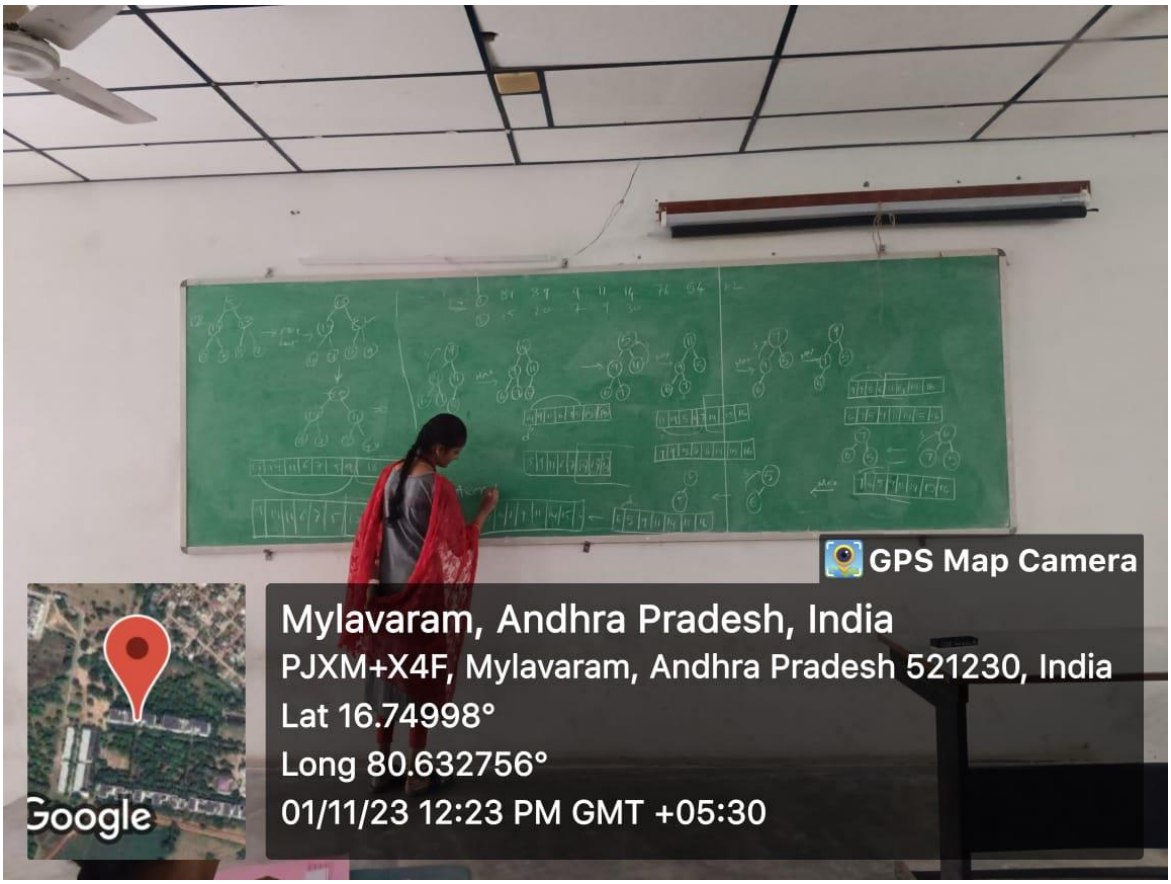
- Develop the algorithms for different sorting Techniques.
- Develop the algorithms for Different trees.
- Acquire specific knowledge on the topic.

4. **Details of participants in Seminar / Role-Play**

S.no	Roll number	Name	Topic
1	22761A0472	B Sangeetha	Heap Sort

2	22761A0479	CH. Rohitha	Binary Tree
3	22761A0494	K Kiran Deepthi	Quick Sort
4	22761A0496	K Salomi Naidu	Heap Sort

5. **Activity Photos:**

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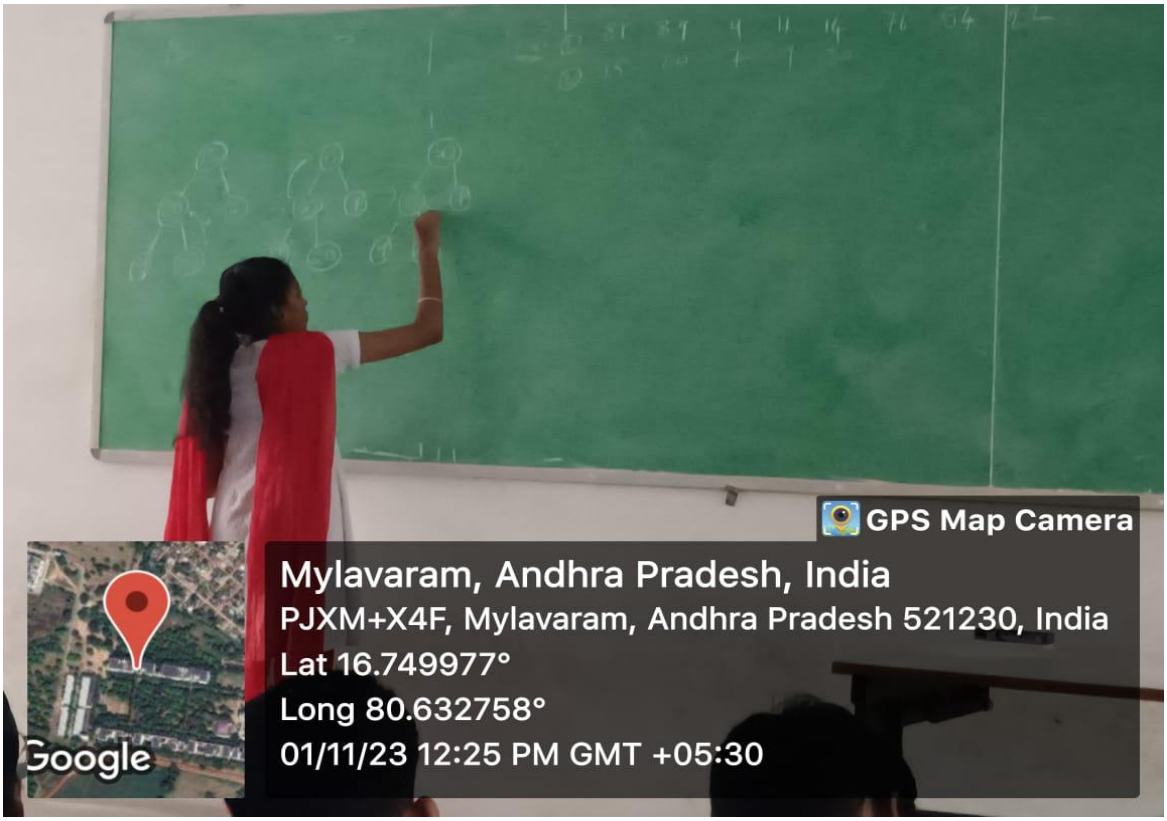
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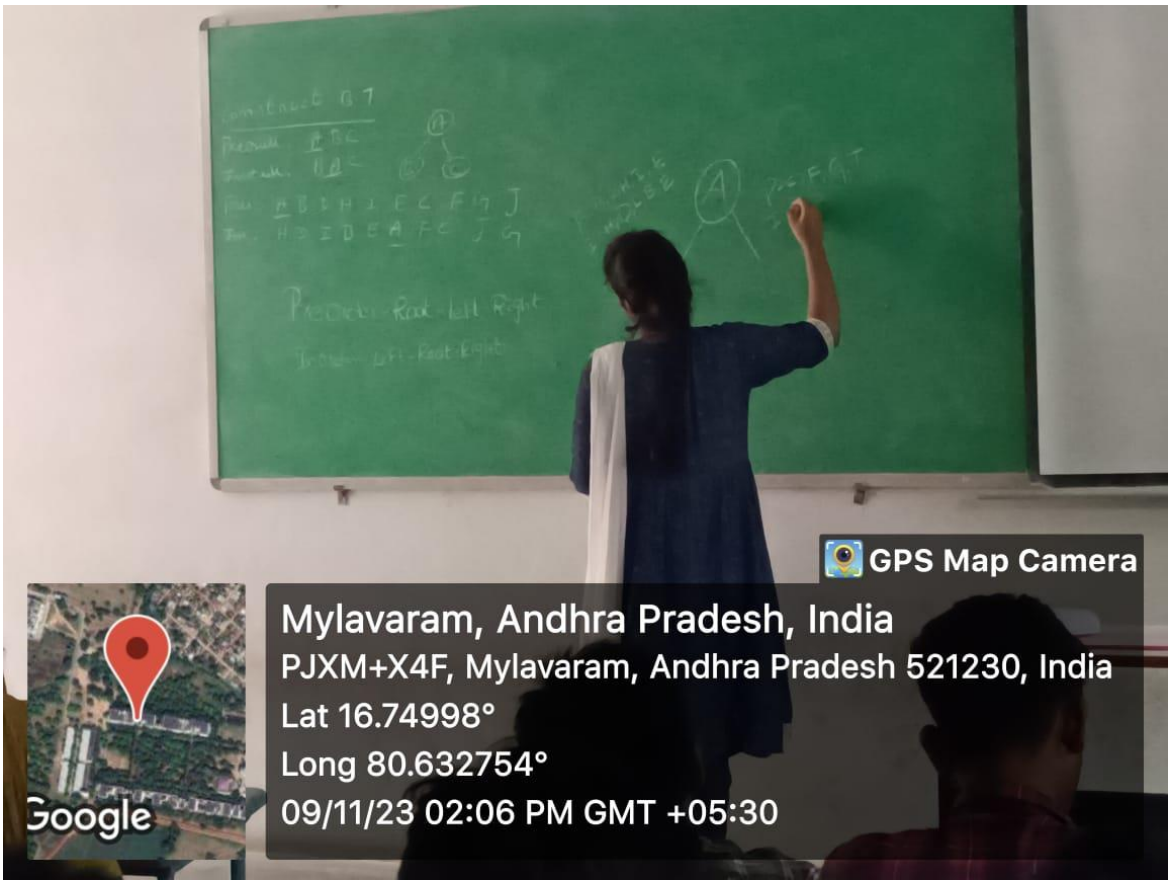

Course Instructor **Head of the Department**

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Course Details:

Course Name:	**INFORMATION RETRIEVAL SYSTEM**
Course Code:	20CS21
Branch/Sem/Section:	CSE / VI Sem /B
Academic Year:	2023-24
Faculty Name:	Mrs.P.Mary Kamala Kumari
Topic Selected:	Hardware Text Search System ALGORITHMS, Clustering, Ranking
Date of Activity:	23-03-24 & 20-03-24

1. **Selection of activity:**

In my course, **INFORMATION RETRIEVAL SYSTEM** to conduct an active learning work, I plan to conduct **"Seminar and Role-play".** This helps students in achieving objectives by improving individual presentation and analysis skills.

List of outcomes associated with activity:

An algorithm related to hardware text processing within the context of activity-based learning in an IRS (Information Retrieval System). Here are some of the key outcomes: **Text Preprocessing, Feature Extraction, Hardware Optimization, Evaluation and Feedback Loop.**

Clustering in an Information Retrieval System (IRS) involves grouping similar documents together based on their content or other features. Here's how clustering might be implemented in an IRS context: **Clustering Algorithm Selection, Feature Selection, Clustering Process, and Incremental Clustering.**

Ranking in an Information Retrieval System (IRS) within an activity-based learning context involves prioritizing search results or recommendations based on user interactions, preferences, and the relevance of the retrieved items. Relevance Ranking

2. Objectives of activity:

Knowledge Dissemination: Share information and knowledge about the principles, concepts, and advancements in Information Retrieval Systems to enhance the understanding of participating students.

Educational Enrichment: Provide students with a deeper insight into the theories and practices related to information retrieval, fostering a more comprehensive understanding of the subject matter.

Skill Development: Help students develop practical skills related to designing, implementing, and evaluating information retrieval systems, preparing them for real-world applications.

Awareness of Industry Trends: Discuss current trends, emerging technologies, and industry applications in the field of information retrieval, keeping students informed about the latest developments.

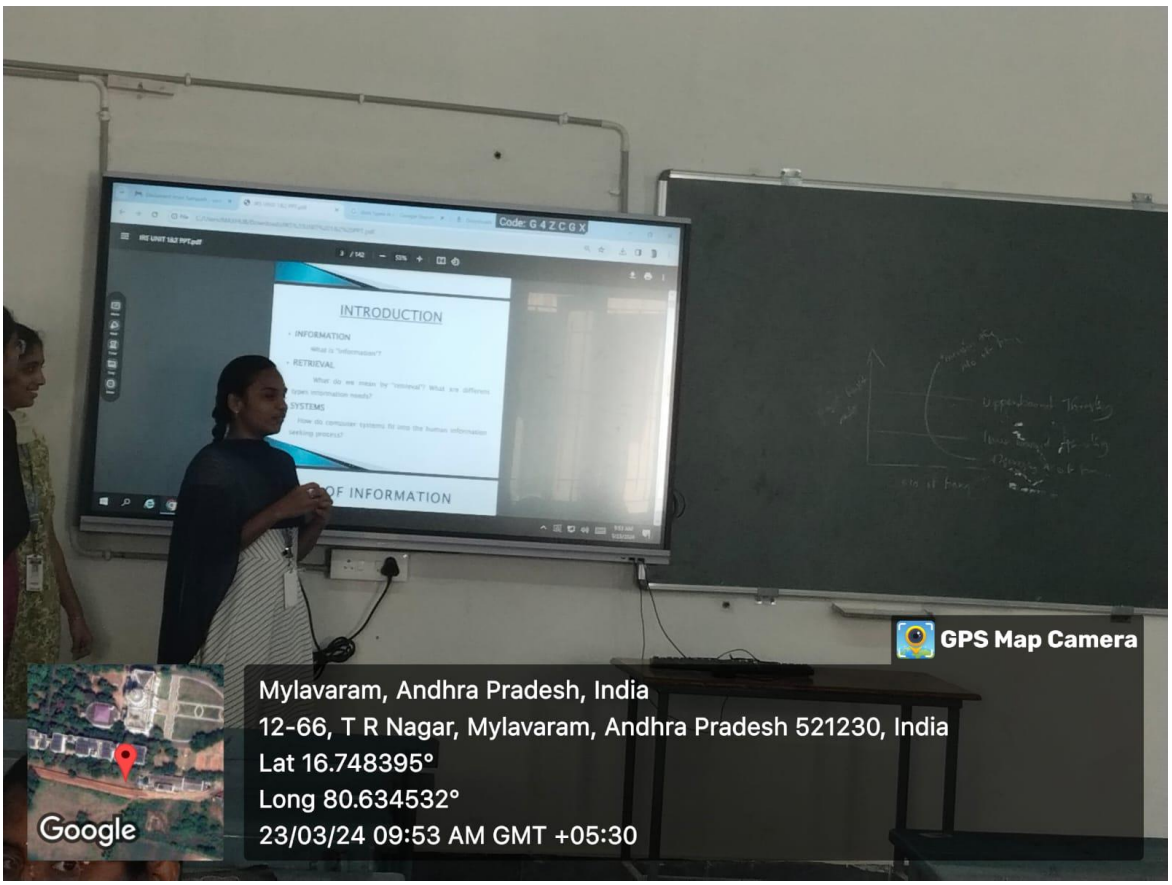
Application of Theoretical Knowledge: Demonstrate how theoretical concepts learned in classrooms are applied in real-world scenarios, bridging the gap between academic knowledge and practical application.

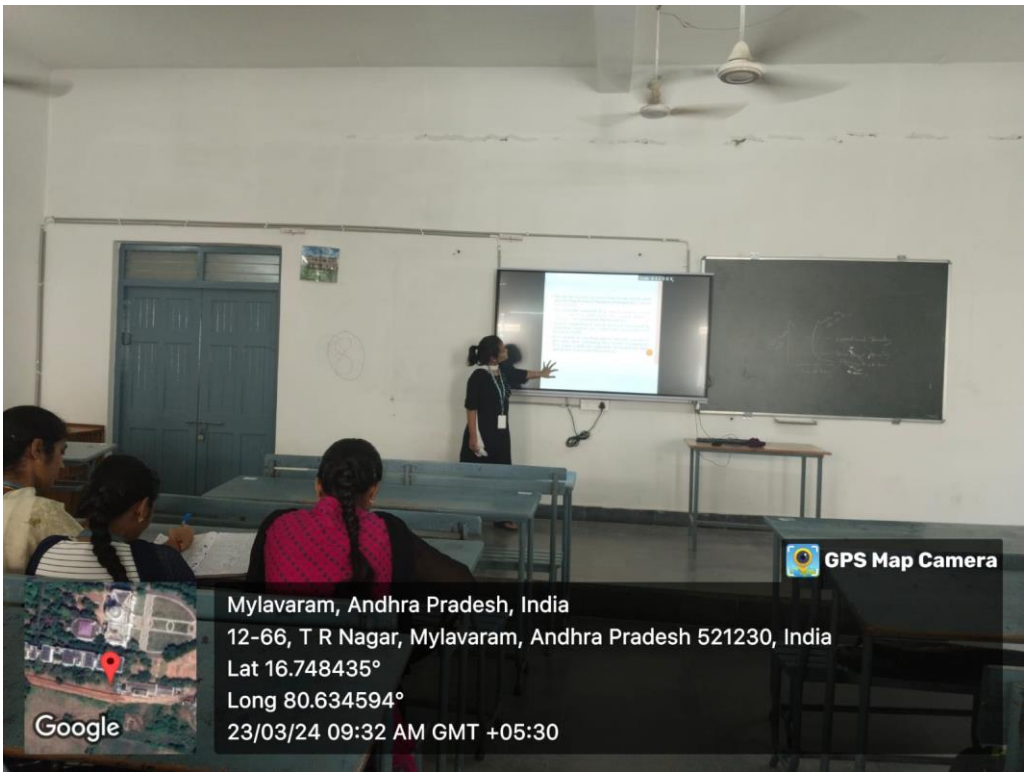
Professional Development: Provide insights into the professional landscape related to information retrieval, helping students understand potential career paths and the skills required in the industry.

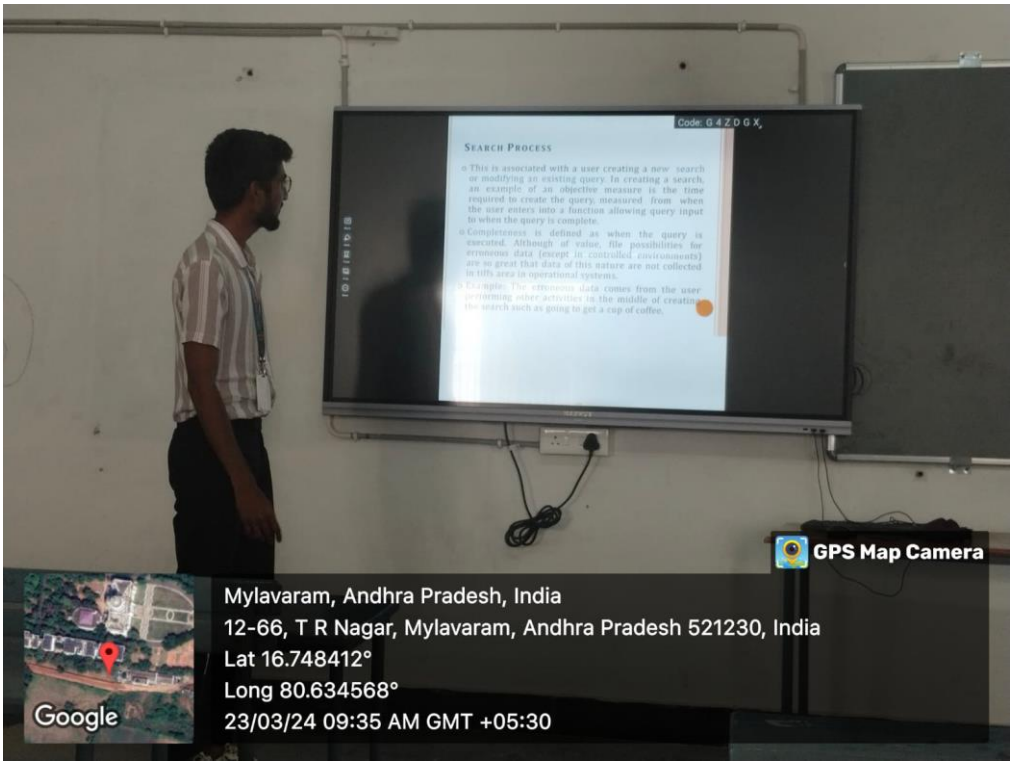
3. Details of participants in Seminar / Role-Play

S.no	Roll number	Name	Topic
1	21761A0593	K SAMPATH	He was given information about Clustering
2	21761A0588	G. Navya	She was given information about Hardware Text Search System ALGORITHMS
3	21761A05A3	L. Manisha	She was given information about software Text Search Alogrithms
4	21761A0581	vamsi	He was given information about Search Process

4. Activity Photos:







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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Course Details:

Course Name:	Object Oriented Programming
Course Code:	20CS09
Branch/Sem/Section:	CSE /III /C
Academic Year:	2023-24
Faculty Name:	Mr. N. SrinivasaRao
Topic Selected:	Multithreading & Exception Handling Concept
Date of Activity:	29-09-2023

1. Selection of activity:

In my course, to conduct an active learning work, I plan to conduct **"Seminar and Roleplay".** This helps students in achieving objectives by improving individual presentation and analysis skills.

2. List of outcomes associated with activity:

In my course, the following outcomes are associated with the selected activity.

- Developing Components for the given Application.
- Improve individual/teamwork, communication & report writing skills with ethical values.

3. Objectives of activity

The main objectives of this activity are listed as follows. A learner able to:

- Develop interpersonal communication.
- Develop and contribute towards a common goal.
- Acquire specific knowledge on the topic.

4.Details of participants in Seminar / Role-Play

S.no	Roll number	Name	Topic
1	22761A05E2	CHITTURI YASVANTH	Exception Handling Hierarchy diagram
2	22761A05E5	D SURYA VAMSI	Classification of Exceptions
3	22761A05I1	PARISA GUNASEKHAR	Importance of try, catch & finally blocks
4	22761A05I4	PULARI AJAY KUMAR	Importance of throw & throws keywords
5	22761A05H8	NELAKUDITI DEVI SRI	Checked Exceptions with examples
6	22761A05J3	SYED RASHA	Unchecked Exceptions with examples

1. **Activity Photos:**

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Course Details:

Course Name:	Software Project Management
Course Code:	20CS25
Branch/Sem/Section:	CSE /VII /B
Academic Year:	2023-24
Faculty Name:	P. Veera Swamy
Topic Selected:	Software project life cycles phases
Date of Activity:	16-10-2023

1.Selection of activity:

During **Software Project Management** course, I planned to conduct a one activity-based learning task with students that is **"Role-play and Seminar".** This activity helps the students to gain knowledge about the software development process and much more about the software project life cycle phases as well as improve their individual presentation skills.

2.List of outcomes associated with activity:

The outcomes of engineering and production stages can vary depending on the specific industry, product, and project. However, here is a generalized list of outcomes for both engineering and production stages:

Engineering Stage Outcomes:

- **Design Specifications:** Clearly defined specifications and requirements for the product or system.
- **Prototypes:** Physical or digital prototypes to validate design concepts and functionalities.
- **Technical Drawings:** Detailed drawings, schematics, and blueprints for manufacturing and assembly.
- **Simulation and Analysis Results:** Results from simulations and analyses to ensure product performance, structural integrity, and safety.
- **Bill of Materials (BOM):** A comprehensive list of all materials, components, and sub-assemblies required for production.

- **CAD Models:** 3D computer-aided design (CAD) models representing the final product.
- **Testing Protocols:** Defined protocols for testing and validating the product during and after production.
- **Feasibility Studies:** Analysis of the technical, economic, and operational feasibility of the product.
- **Regulatory Compliance Documentation:** Documents ensuring that the product complies with relevant industry standards and regulations.
- **Risk Analysis:** Identification and assessment of potential risks associated with the design and engineering processes.

Production Stage Outcomes:

- **Manufactured Units:** Actual production of the final product or components.
- **Quality Control Reports:** Documentation of quality control processes and outcomes to ensure product quality.
- **Assembly Instructions:** Detailed instructions for assembling the product, including step-by-step procedures.
- **Tooling and Equipment:** Development and utilization of tools, molds, and equipment required for production.
- **Production Schedule:** A timeline outlining the production process, including milestones and delivery dates.
- **Inventory Management:** Tracking and management of raw materials, work-in-progress, and finished goods.
- **Cost Analysis:** Evaluation of production costs, including labor, materials, and overhead.
- **Waste Management Plan:** Strategies for minimizing waste and optimizing resource utilization during production.
- **Supply Chain Coordination:** Coordination with suppliers to ensure a steady flow of materials and components.
- **Post-Production Support:** Documentation and support for maintenance, repairs, and customer service.

These outcomes collectively contribute to the successful development, manufacturing, and delivery of a product while ensuring it meets quality standards, complies with regulations, and is economically viable.

3.Objectives of Activity:

The main objectives of this activity are listed as follows.

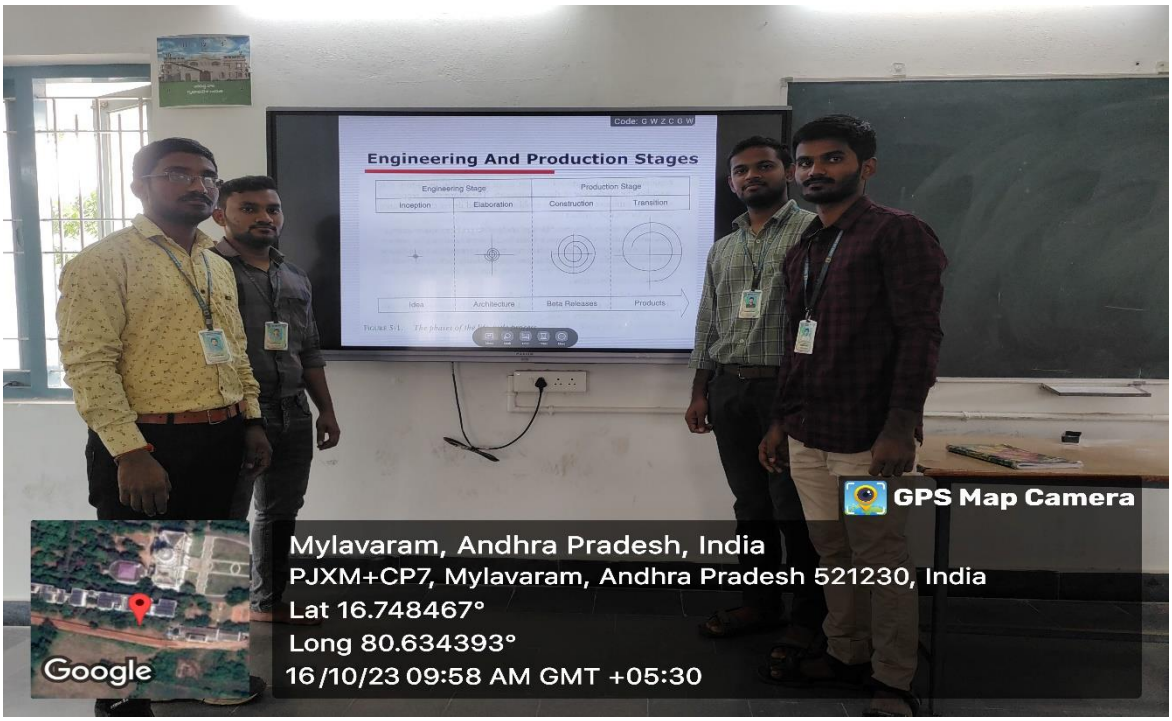
- **Enhanced Engagement:** This engagement helps to create a positive and dynamic learning environment.
- **Better Understanding:** Through hands-on activities, students can gain a deeper understanding of concepts.
- **Critical Thinking Skills:** It promotes the development of higher-order thinking skills by requiring students to apply knowledge in practical situations.
- **Collaboration and Communication:** Students learn to work effectively in teams, share ideas, and communicate their thoughts to others.

- **Skill Development:** Allows for the integration of various skills, including problem-solving, decision-making, creativity, and communication.
- **Application of Knowledge:** They have learned in real-world scenarios, making the learning experience more meaningful and relevant.
- **Motivation:** Hands-on activities can increase students' motivation to learn.
- **Personalized Learning:** This individualized approach can cater to diverse learning preferences within a classroom.
- **Real-World Connection:** This connection to real-world experiences can enhance the relevance of the curriculum.

4.Details of participants in Role-Play and Seminar

S.no	Roll number	Name	Topic
1	20761A0576	Danda Rami Reddy	He was given information about Inception phase
2	20761A05A6	Nadiminti Manohar	He was given information about Elaboration phase
3	20761A05C5	Tumati Venkata Manikanta Rakesh	He was given information about Construction phase
4	20761A05C7	Tupakula Muralikrishna	He was given information about Transition phase

1. Activity Photos:




Code: G W Z C G W
Inception Phase
Essential Activities
Formulating the scope of the project. The information repository should be sufficient to define the problem space and derive the acceptance criteria for the end product.
Synthesizing the architecture. An information repository is created that is sufficient to demonstrate the feasibility of at least one candidate architecture and an, initial baseline of make/buy decisions so that the cost, schedule, and resource estimates can be derived.
Planning and preparing a business case. Alternatives for risk management, staffing, iteration plans, and cost/schedule/profitability trade-offs are evaluated.
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PJXM+CP7, Mylavaram, Andhra Pradesh 521230, India
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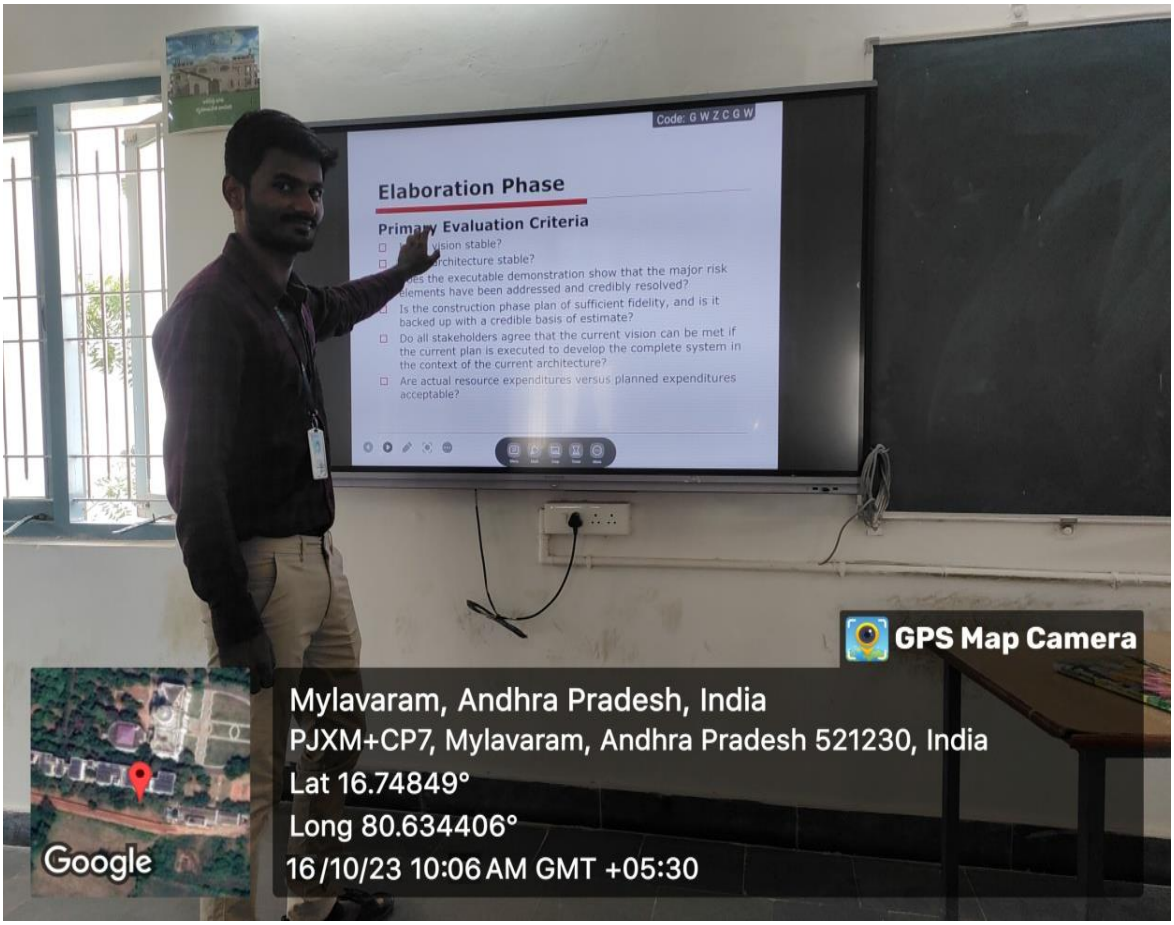
Code: G W Z C G W
Elaboration Phase
Primary Evaluation Criteria
Is the construction phase plan of sufficient fidelity, and is it backed up with a credible basis of estimate?
Do all stakeholders agree that the current vision can be met if the current plan is executed to develop the complete system in the context of the current architecture?
Are actual resource expenditures versus planned expenditures acceptable?
GPS Map Camera
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PJXM+CP7, Mylavaram, Andhra Pradesh 521230, India
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Long 80.634406°
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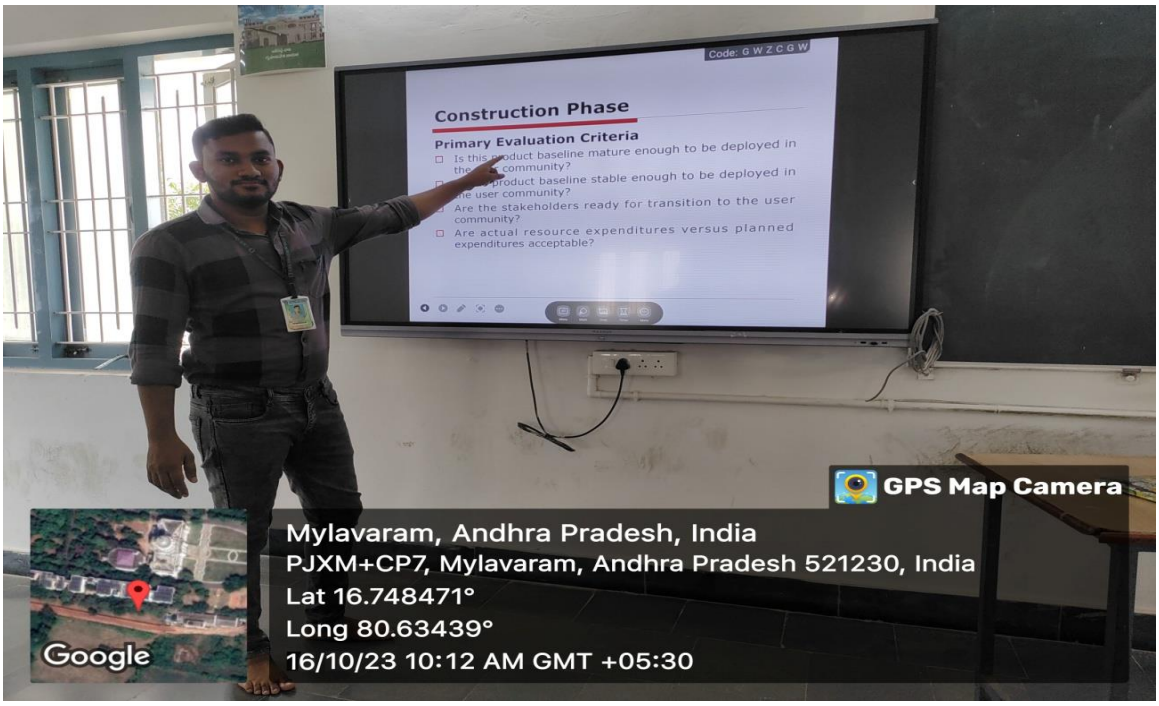

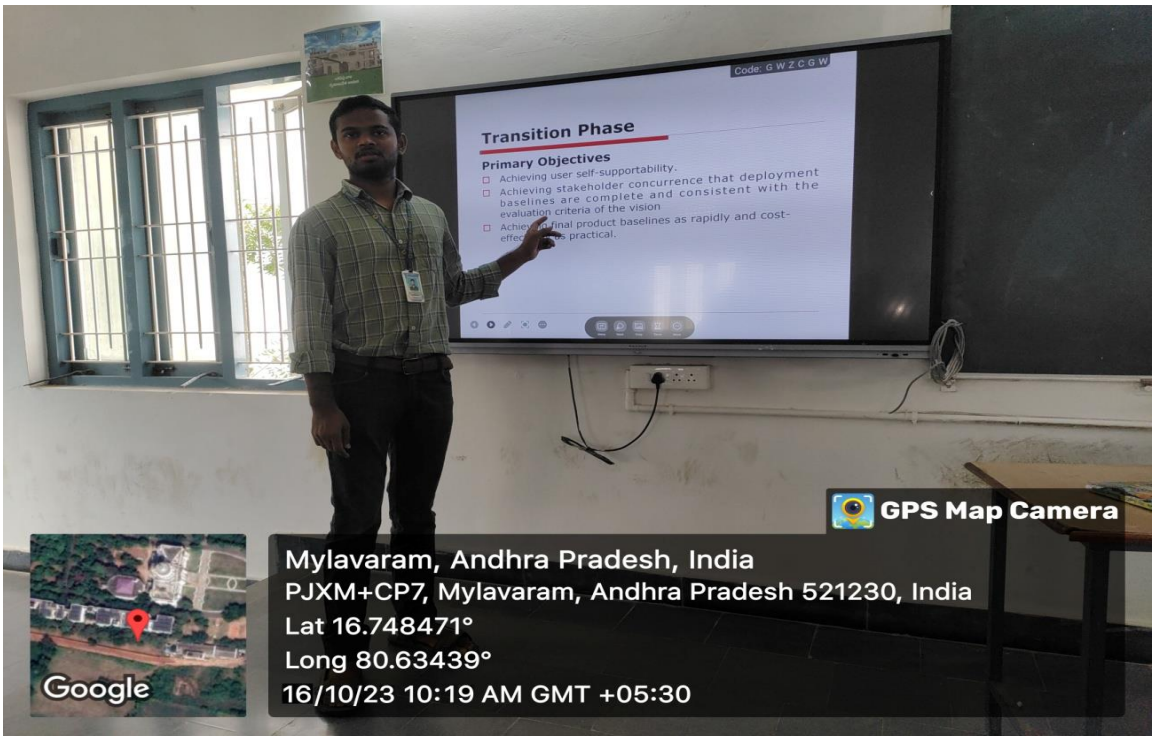

Course Instructor **Head of the Department**