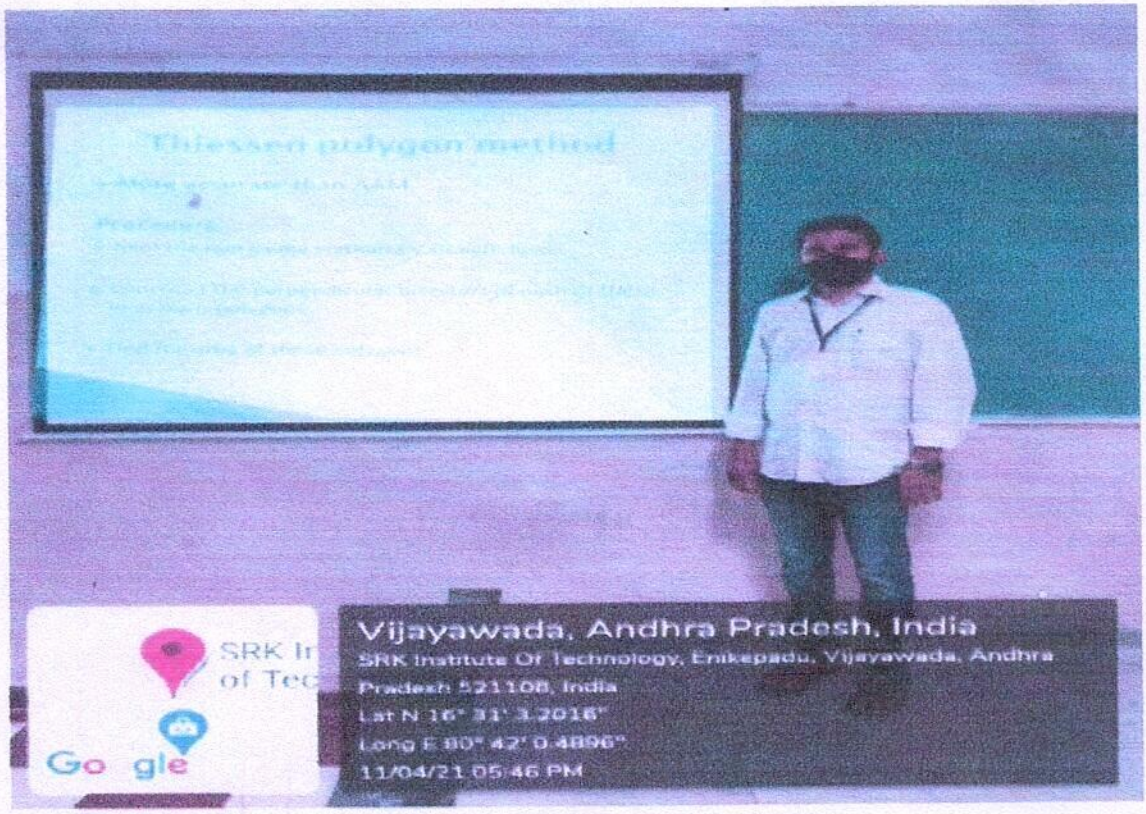
Instructional Methods for Innovative Teaching and Learning:

1.ICT enabled Teaching and Learning : In addition to chalk and talk method of teaching, the faculty members are using the IT enabled learning tools such as PPT, Video clippings , Audio system, online sources, to expose the students for advanced knowledge, practical learning that which makes teaching learning process simple and more effective. The major emphasis is on classroom interaction in terms of research paper presentations, seminars, debates, group discussions, assignments, quiz/tests/viva and laboratory work. For better understanding and learning of concepts, new technology provides various tools like Prezi, TED-Ed, Xmind.

Outcomes Observed: Realization of the course content is straight forward. Class room dynamics got improved.



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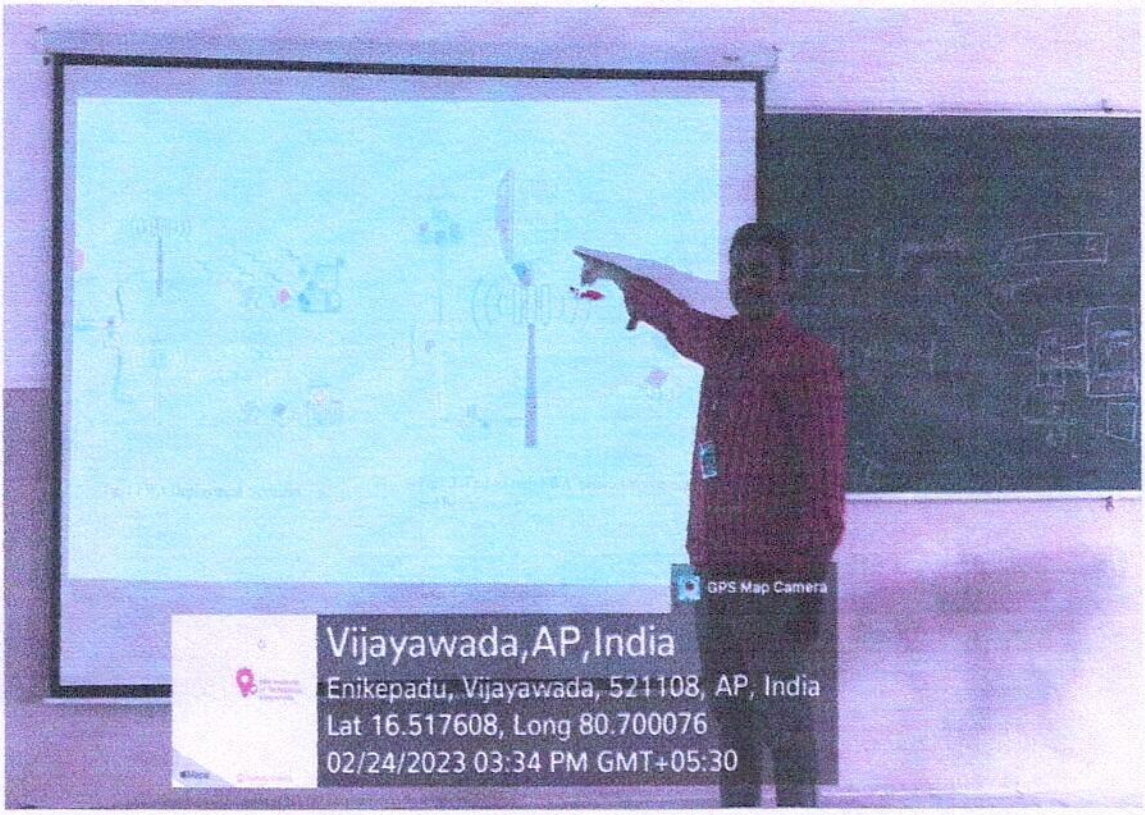

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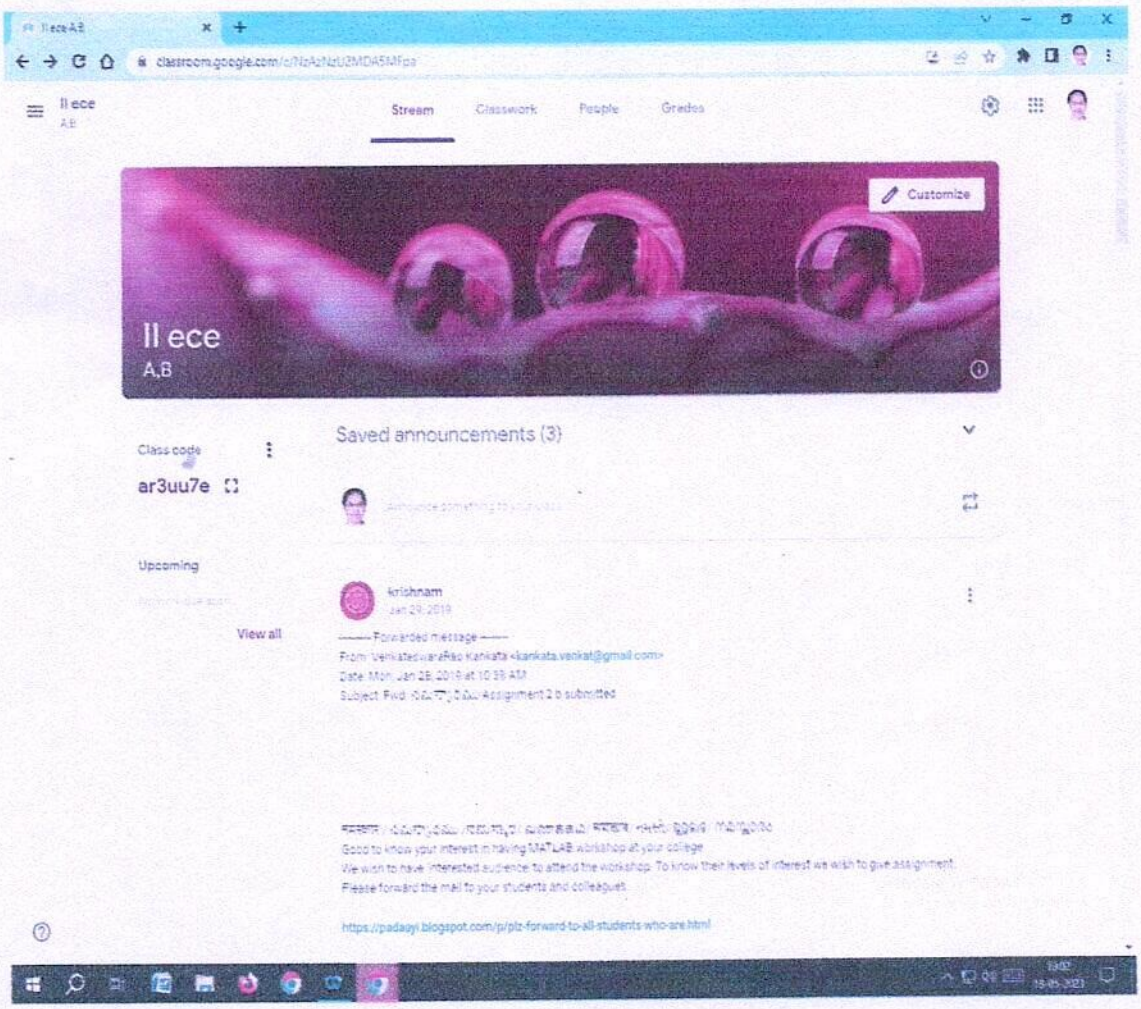
2. **Virtual Teaching:** Students are made familiar and encouraged with the online learning environment platforms those which played a crucial role and made teaching possible during covid pandemic through google classroom, Microsoft Teams, Zoom …etc that which also helped the students to adapt to grasp the teaching from the MOOC platforms.

Outcomes Observed: Students understand how using digital technology tools could help in boosting task efficiency.



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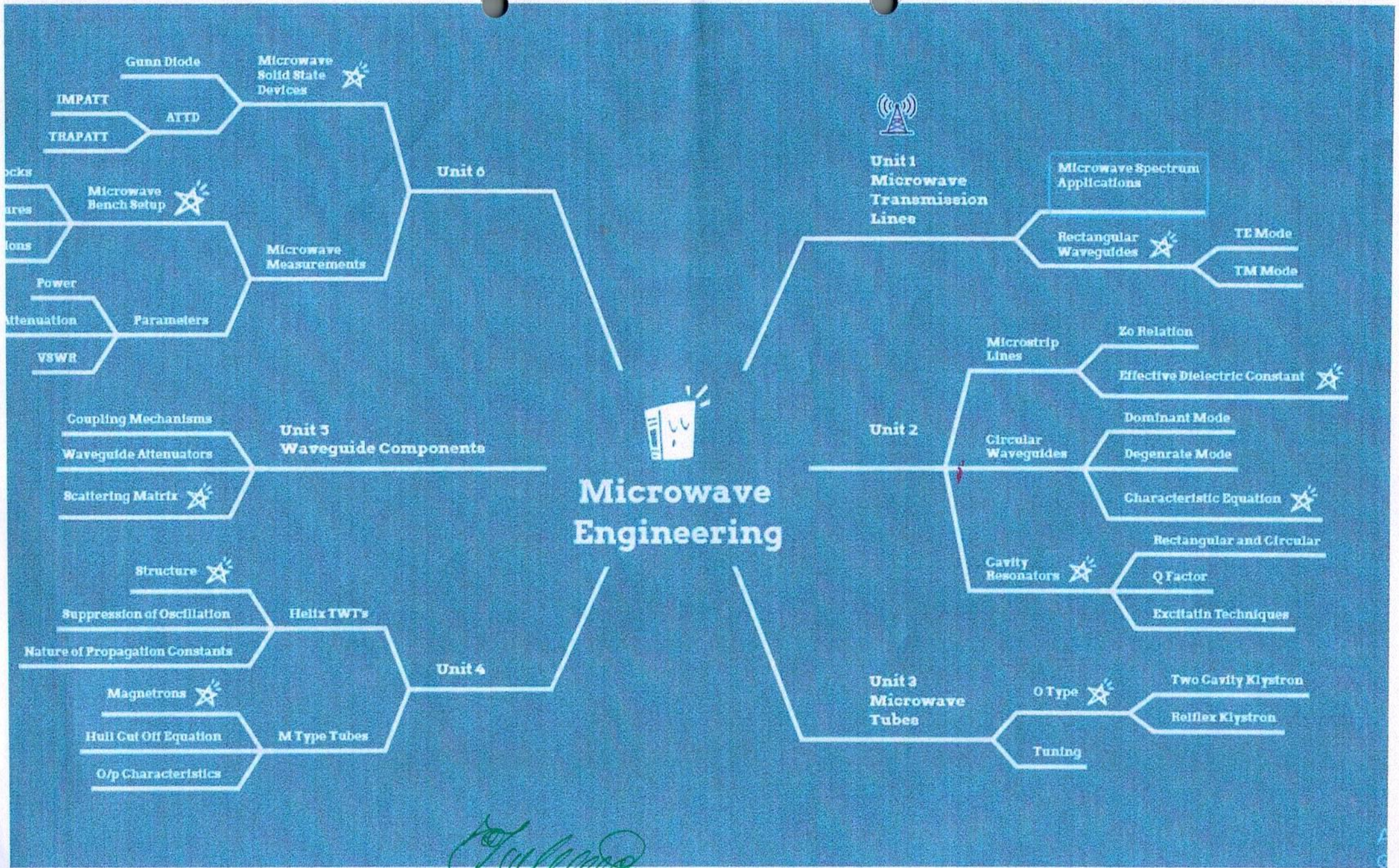

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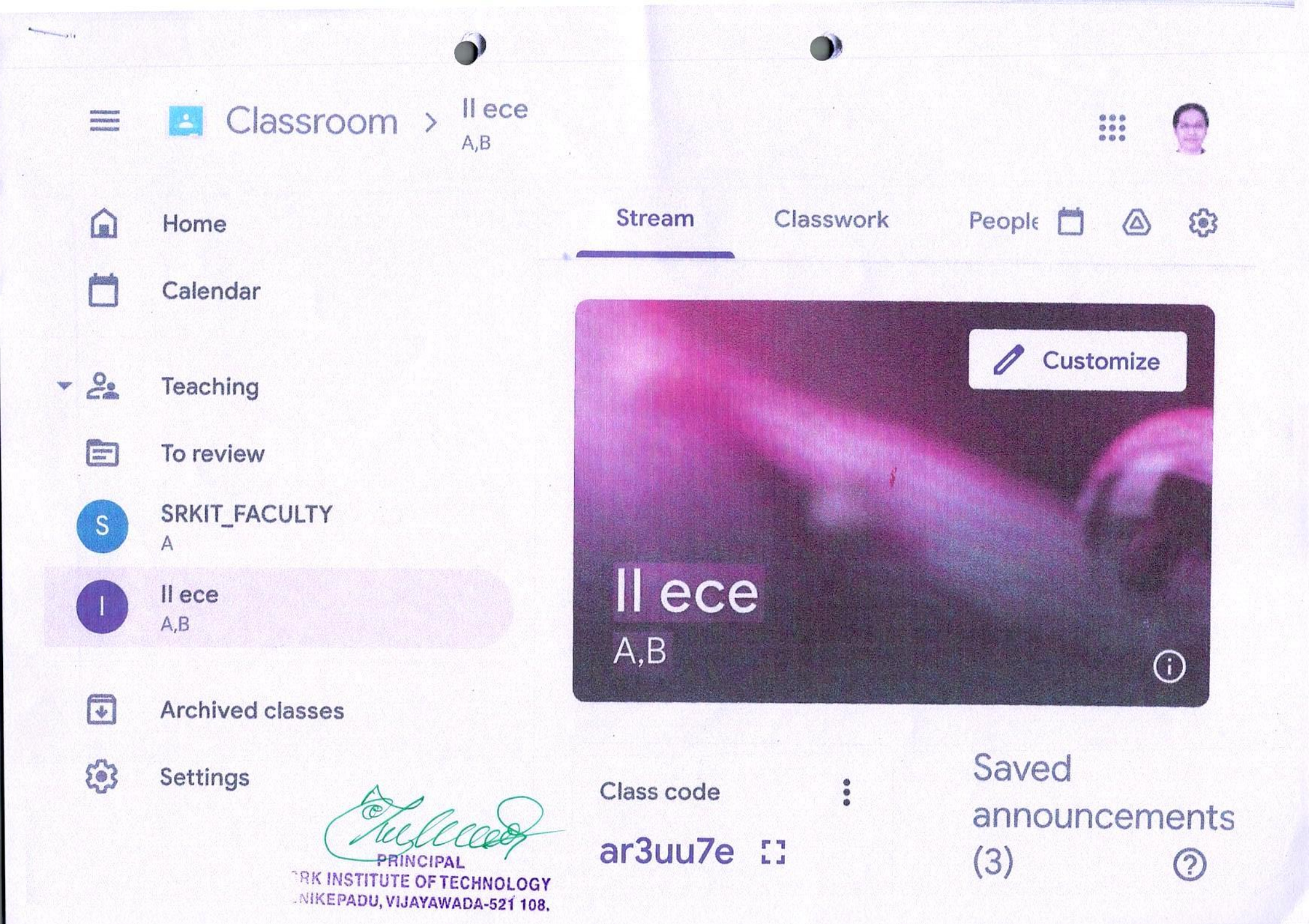
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Teachers

krishnam

Indraja Mutyala

koteswara rao

rathode ravi

Ravi Tej

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- Settings


Shabeena Md


Singi Prabhakar

v venu babu


YASWANTHI PRIYA

keerthi.pulibandla@gmail.com (invited)

mahalakshminvk.nvk@gmail.c... (invited)

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Announce something to your class

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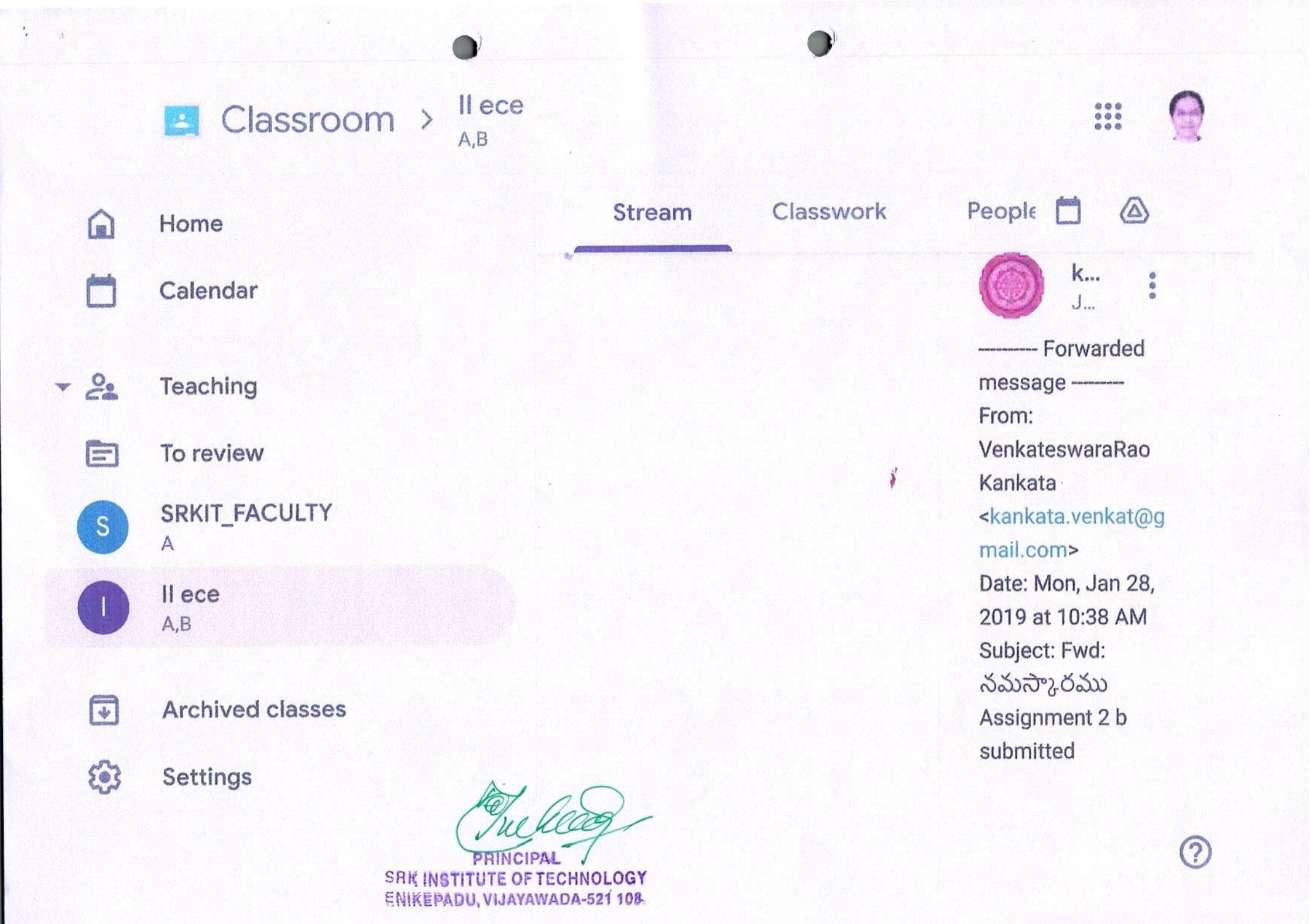
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k...
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-------- Forwarded message --------
From: VenkateswaraRao Kankata <kankata.venkat@gmail.com>
Date: Mon, Jan 28, 2019 at 10:38 AM
Subject: Fwd: నమస్కారము
Assignment 2 b submitted
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[redacted],
নমস্কাৰ/ নমস্তে/
ସୁପ୍ରଭାତ/ നമസ്കാരം
Good to know ypur interest in having MATLAB workshop at your college.
We wish to have 'interested audience' to attend the workshop. To know their levels of interest we wish to give assignment.
Please forward the mail to your students and colleagues.

https://padaavi.blog

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For a teacher, it is a pleasure to talk to students and faculty. I look forward to create/ ignite/ fuel the spark in the young minds ('those who r willing to learn r said to have 'young minds'...though the age is 'more') to know/ work with MATLAB.

Apart from MATLAB, I will also show them how to work with the open

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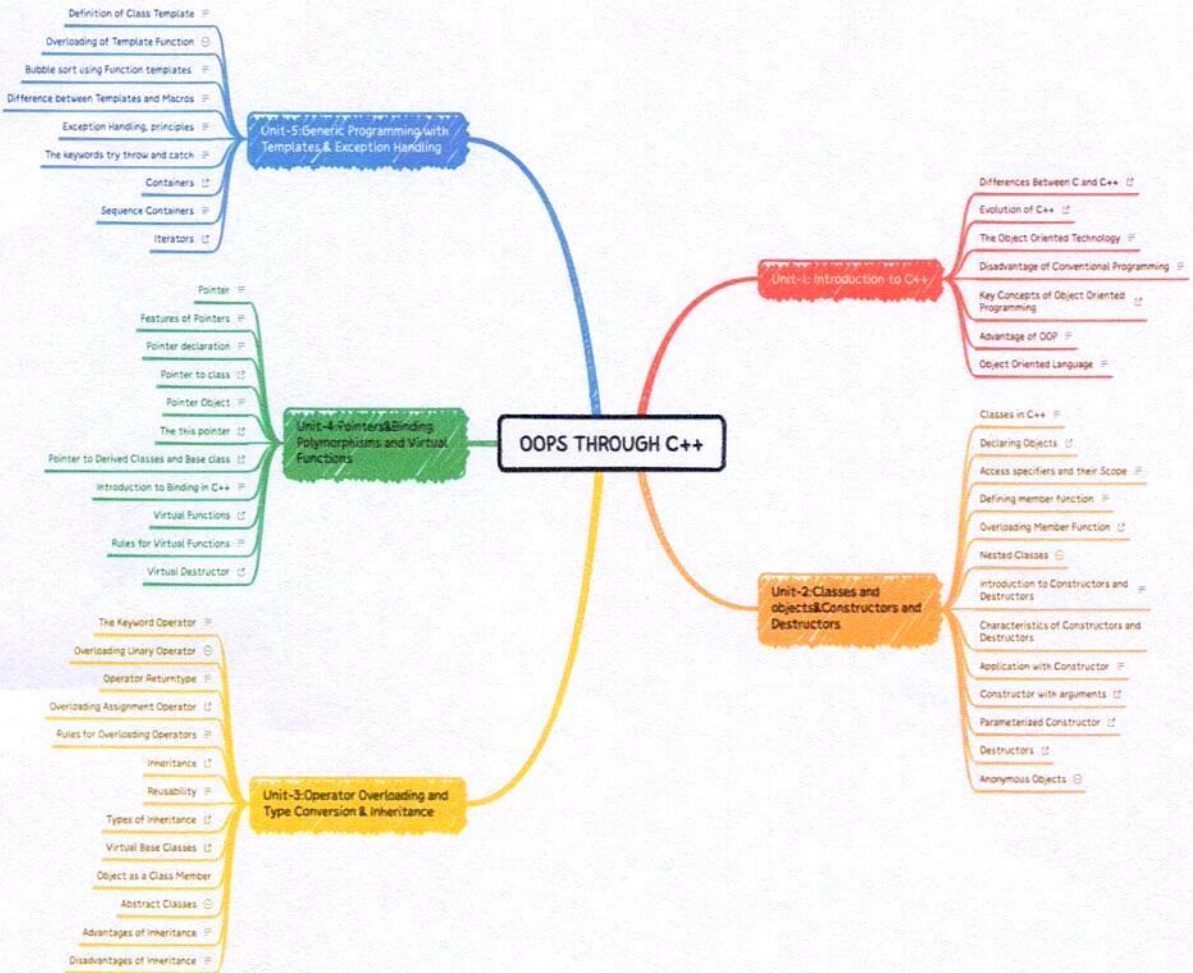

Fig: Xmind representation of OOPS THROUGH C++

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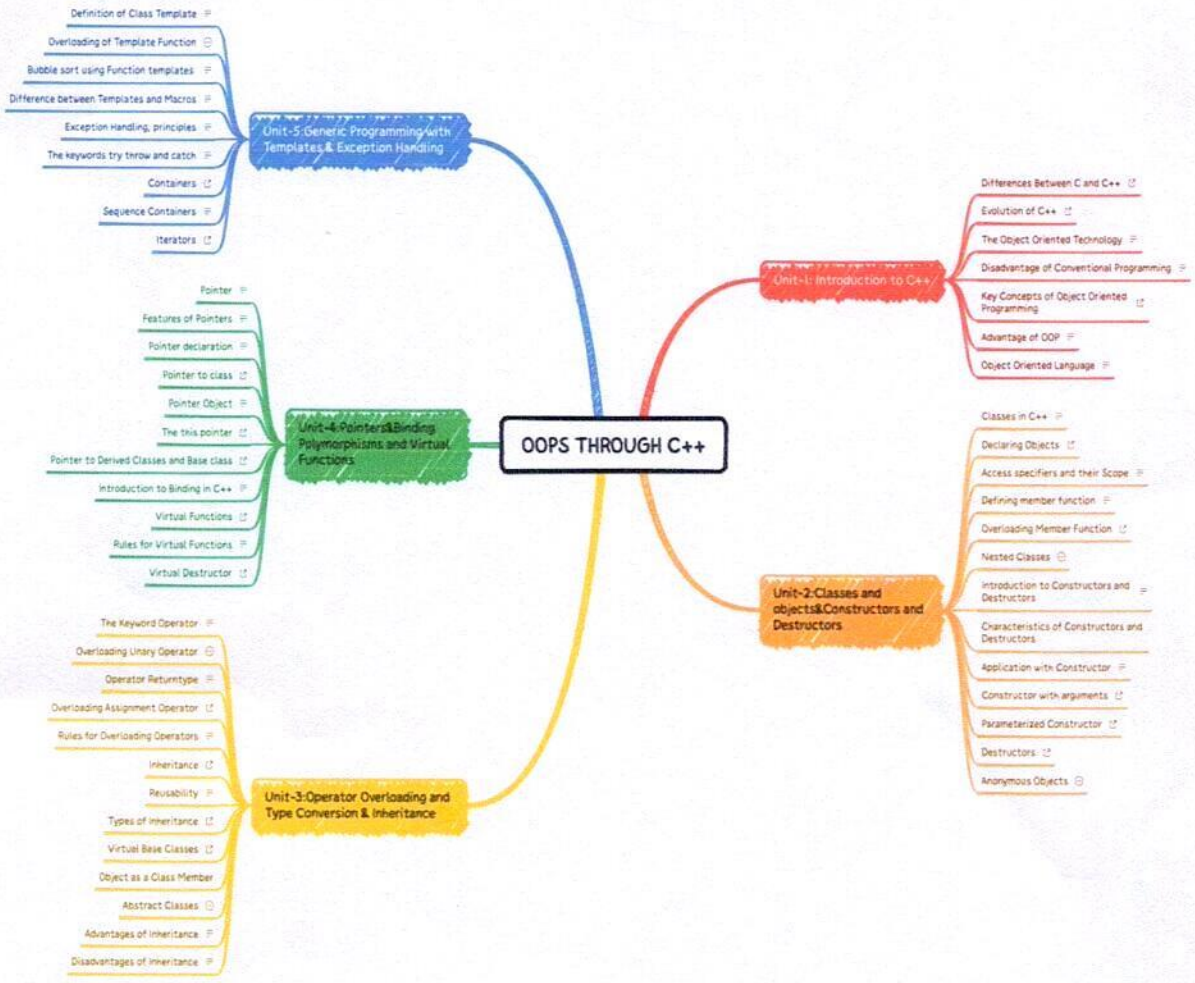

Fig: Xmind representation of OOPS THROUGH C++

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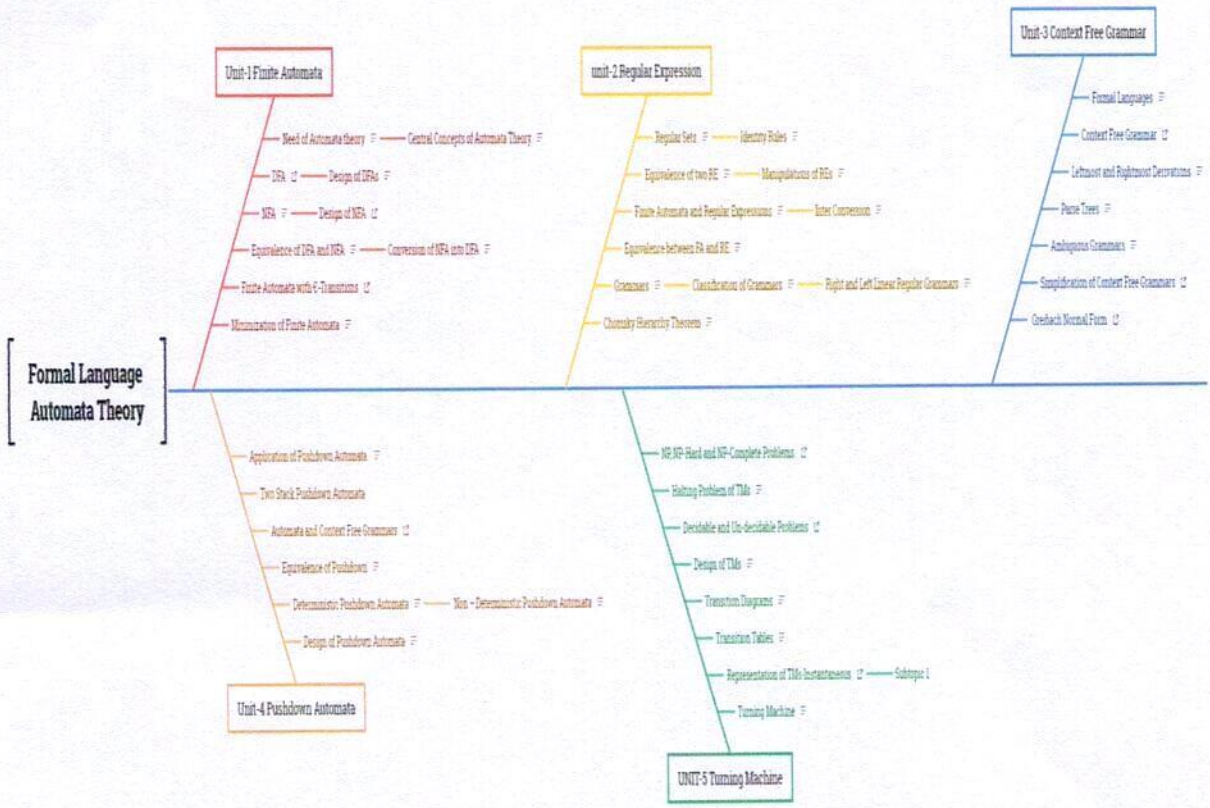

Fig: Xmind representation of FORMAL LANGUAGE AND AUTOMATA THEORY

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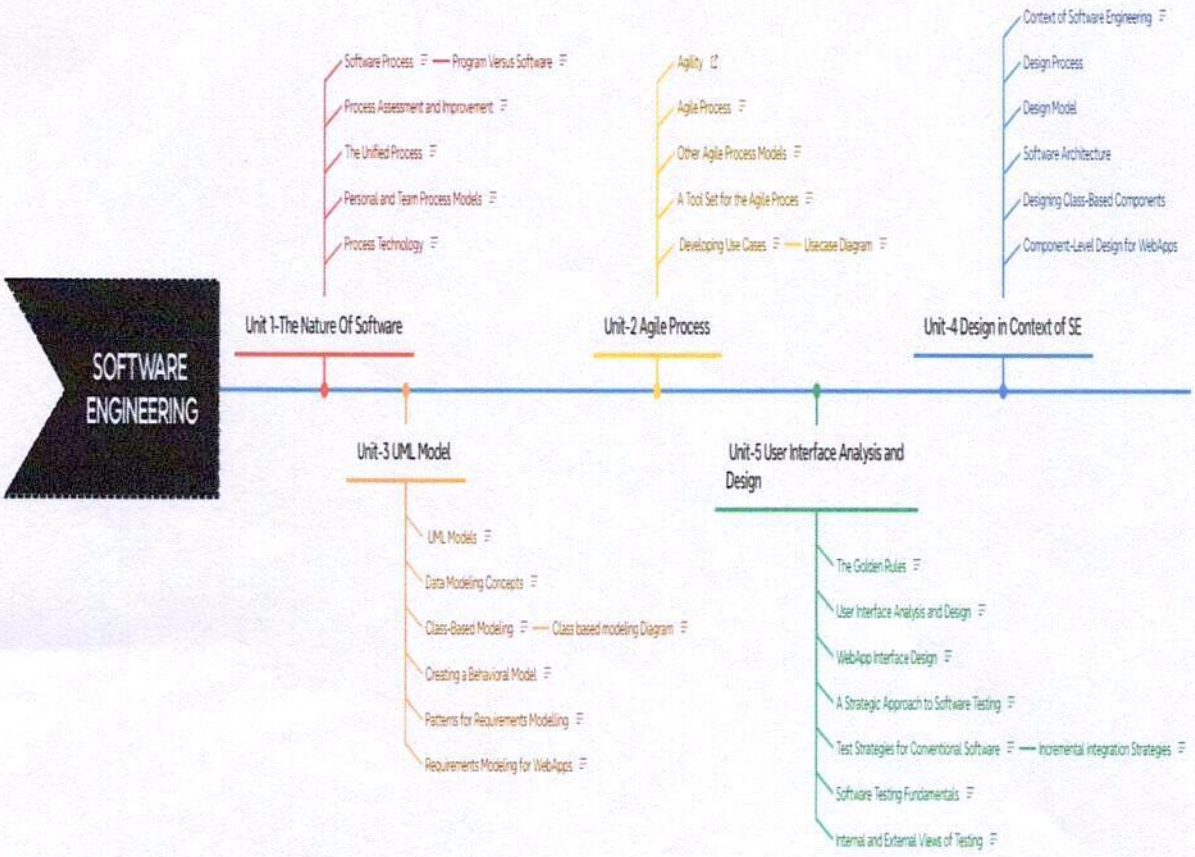

Fig: Xmind representation of SOFTWARE ENGINEERING

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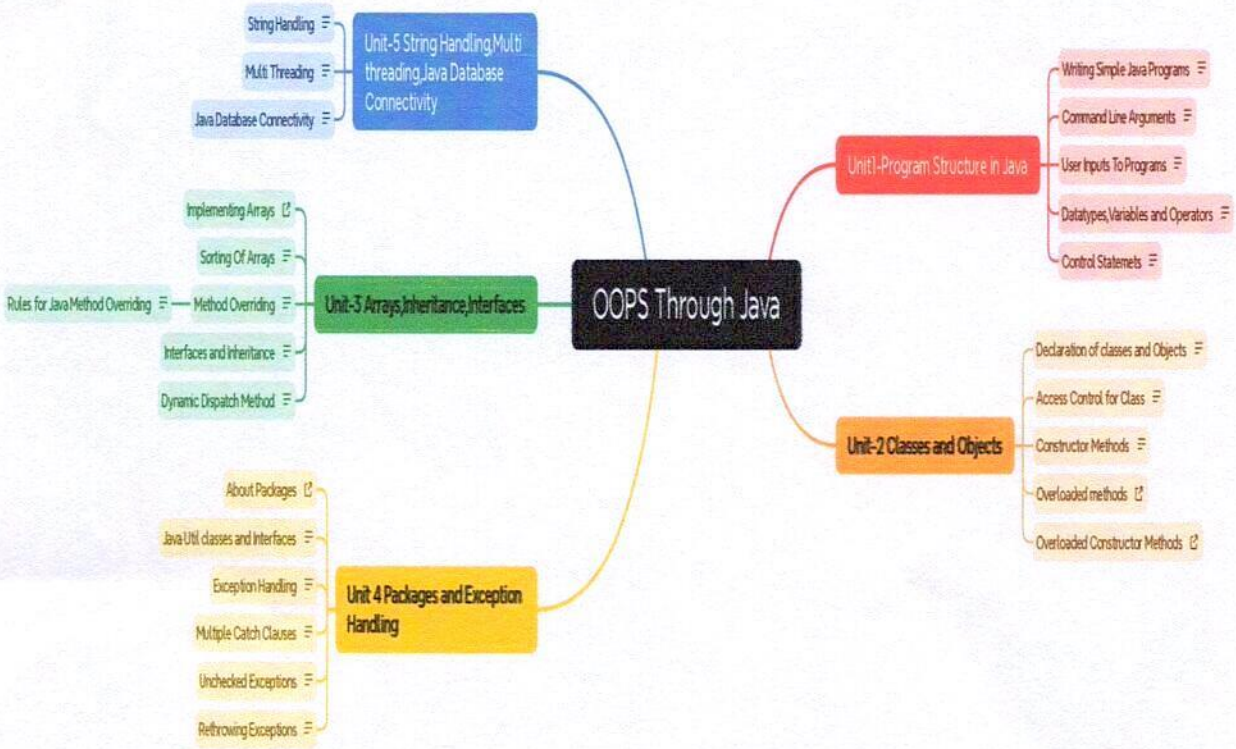

Fig: Xmind representation of OOPS THROUGH JAVA

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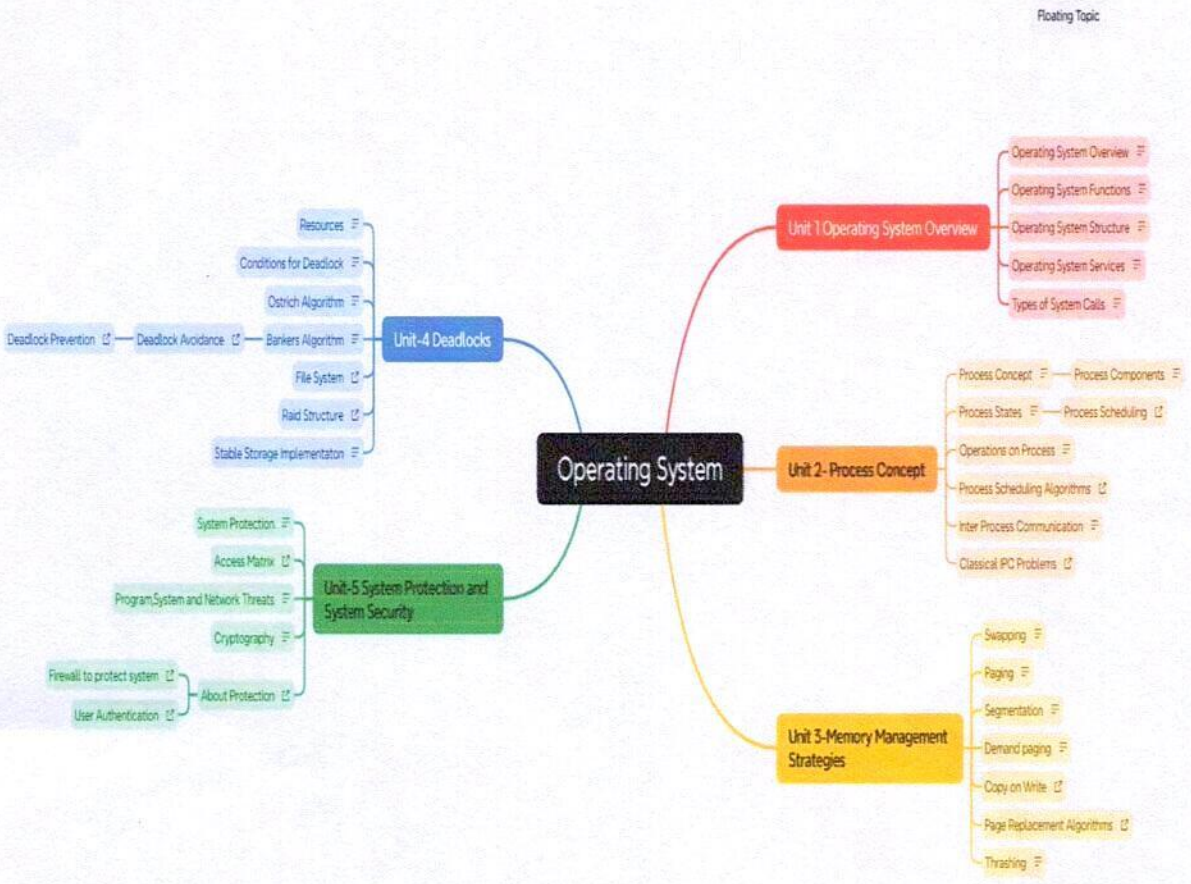

Fig: Xmind representation of OPERATING SYSTEMS

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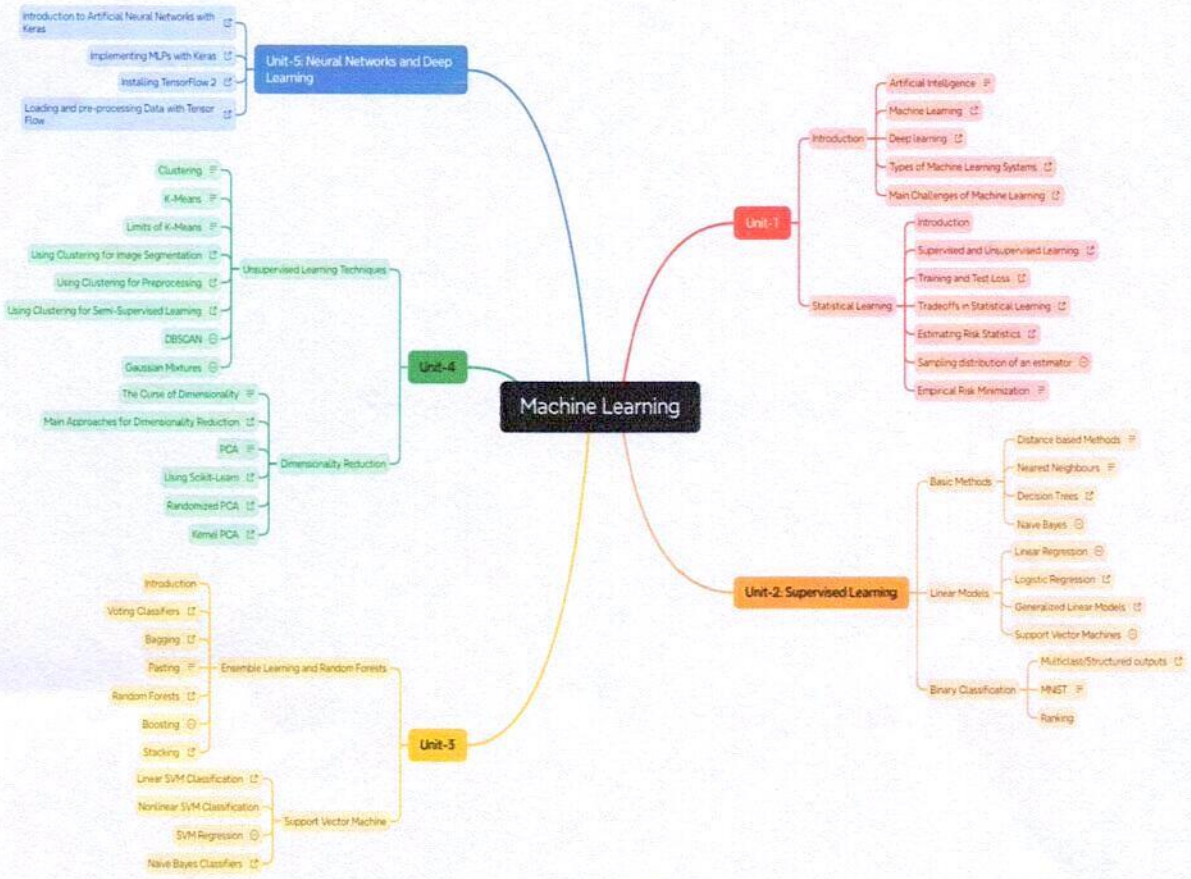

Fig: Xmind representation of MACHINE LEARNING

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Fig: Xmind representation of DATAWAREHOUSING AND DATAMINING

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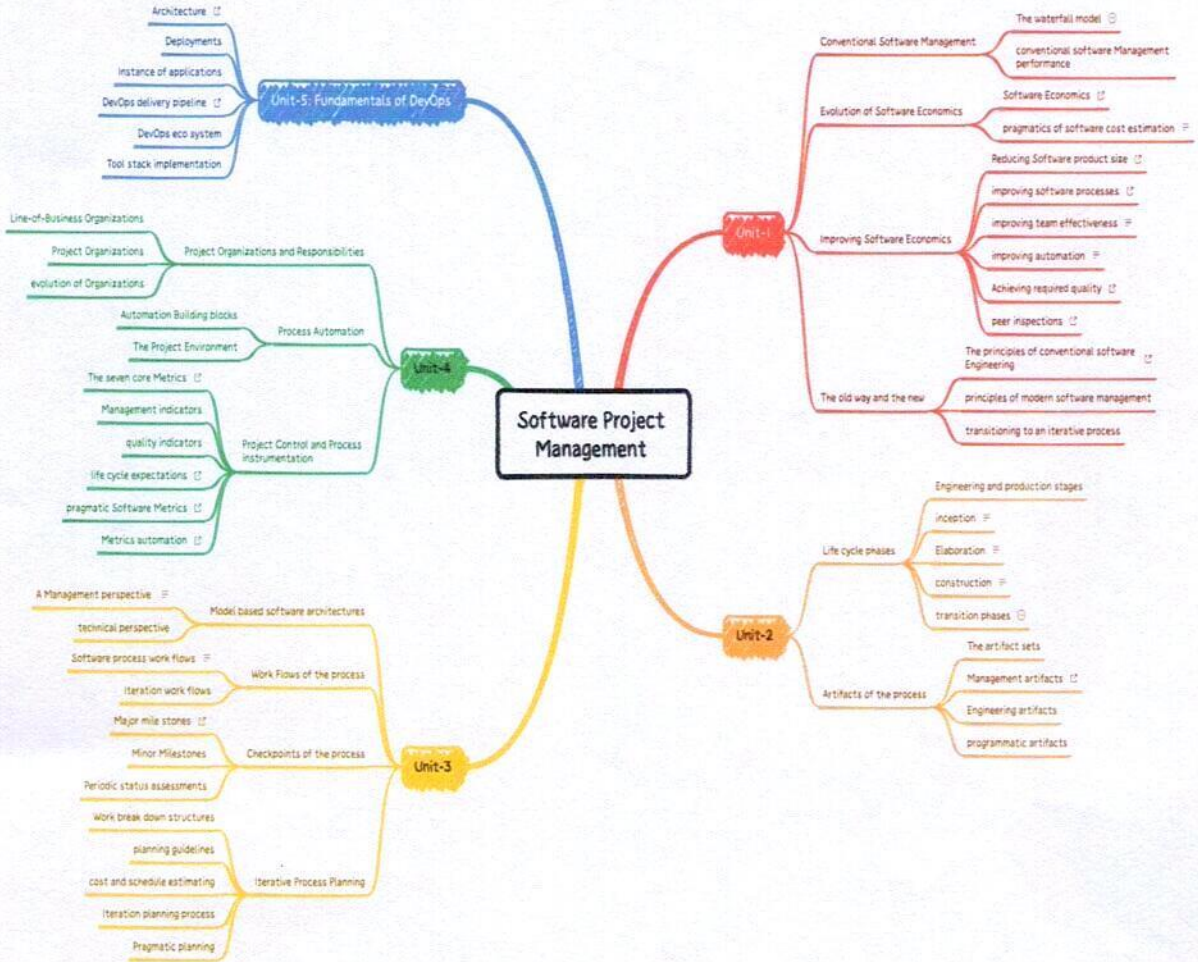

Fig: Xmind representation of SOFTWARE PROJECT MANAGEMENT

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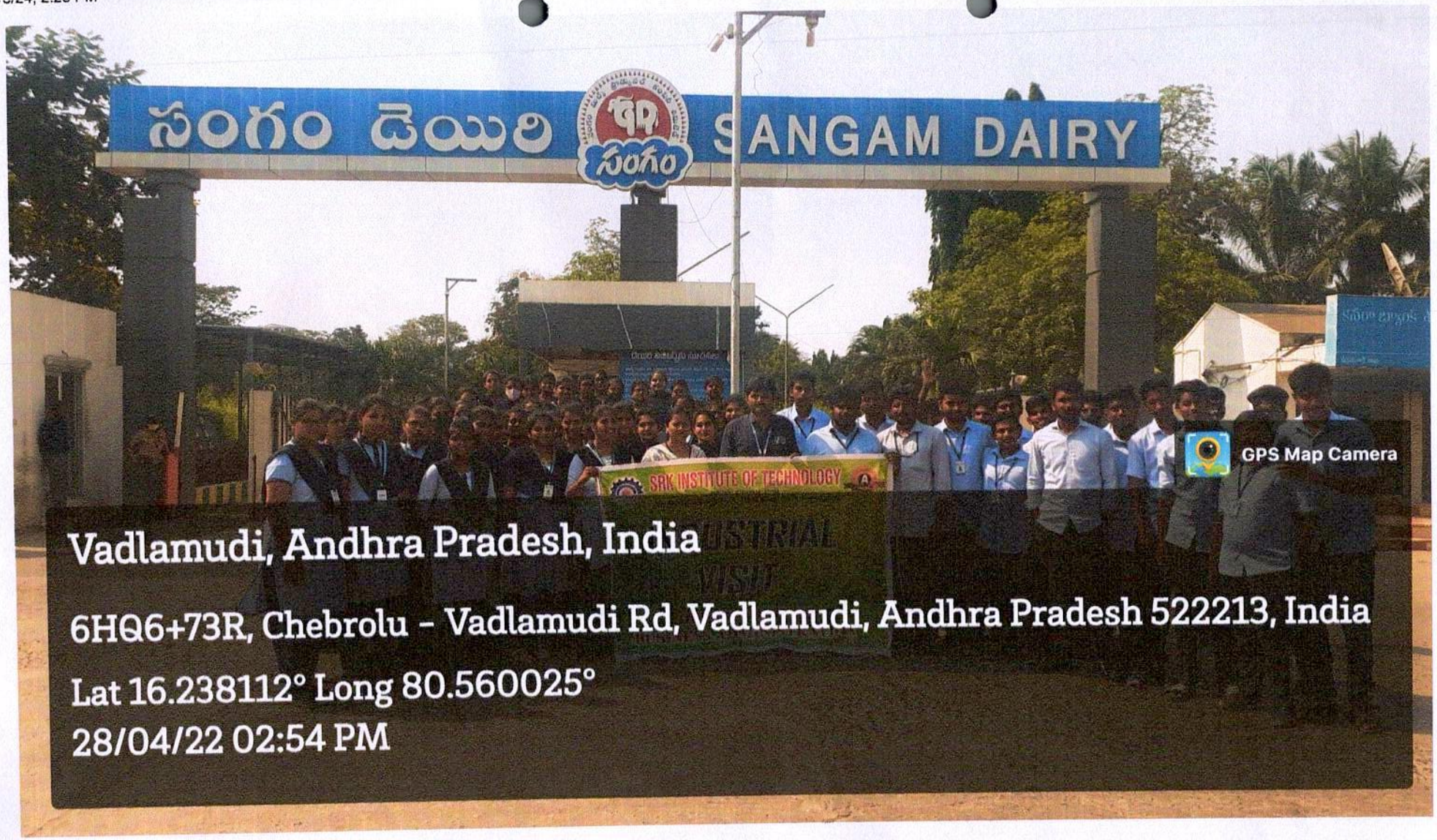
INDUSTRIAL VISIT @ JOCIL



INDUSTRIAL VISIT @ Sangam dairy.

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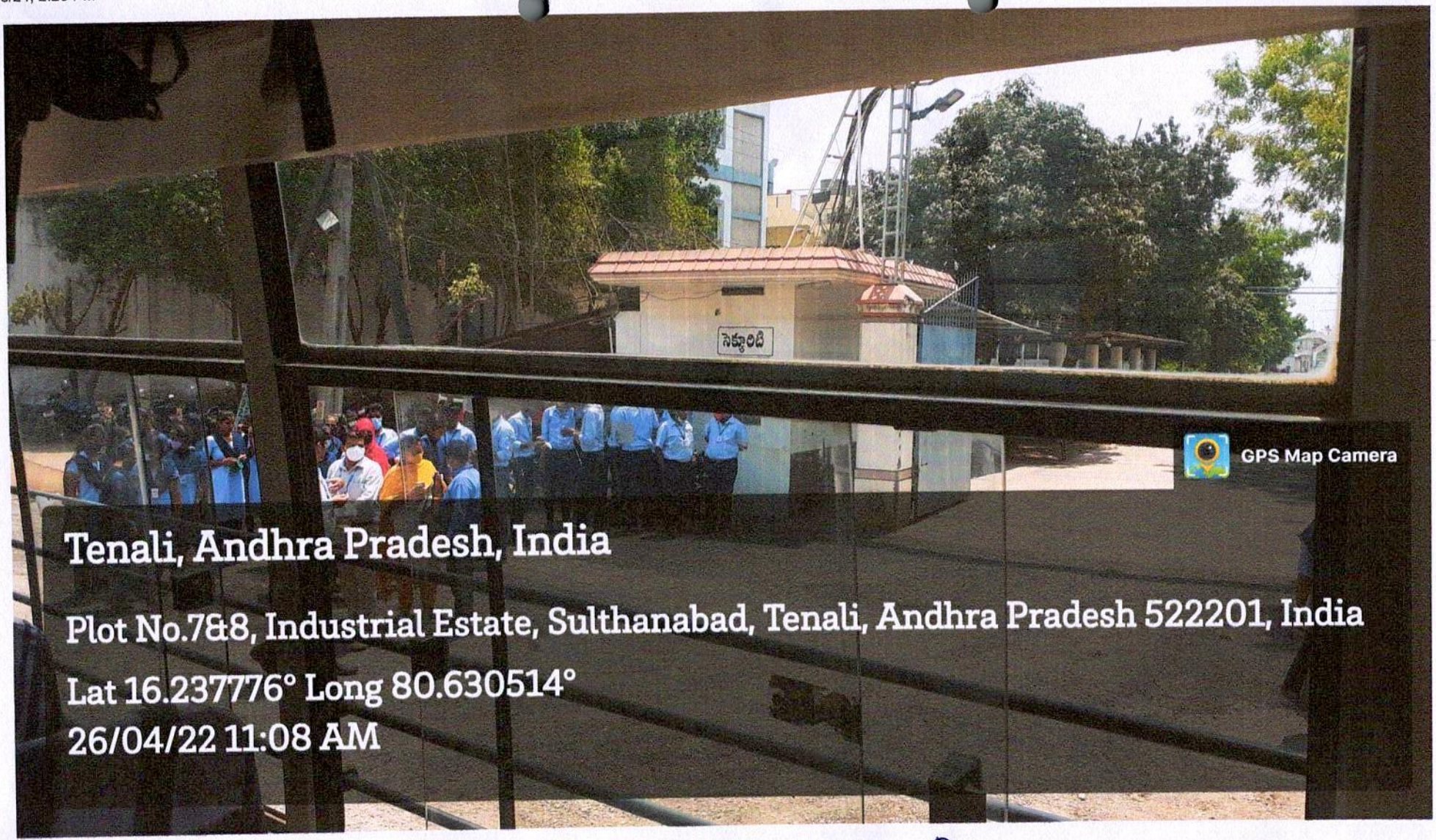

Industrial Visit @. Kumar Pumps.

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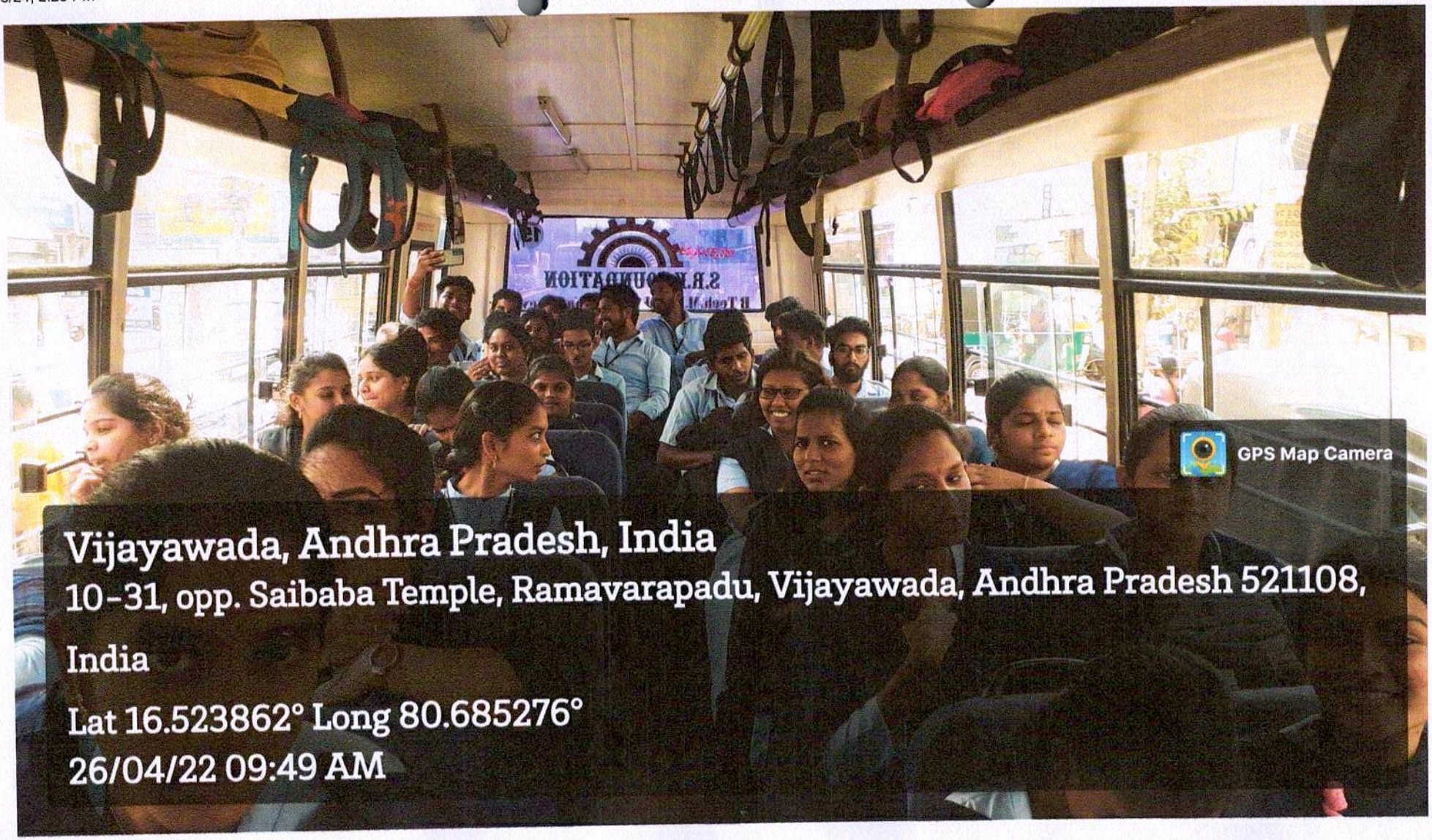

On the way to Industrial Visit

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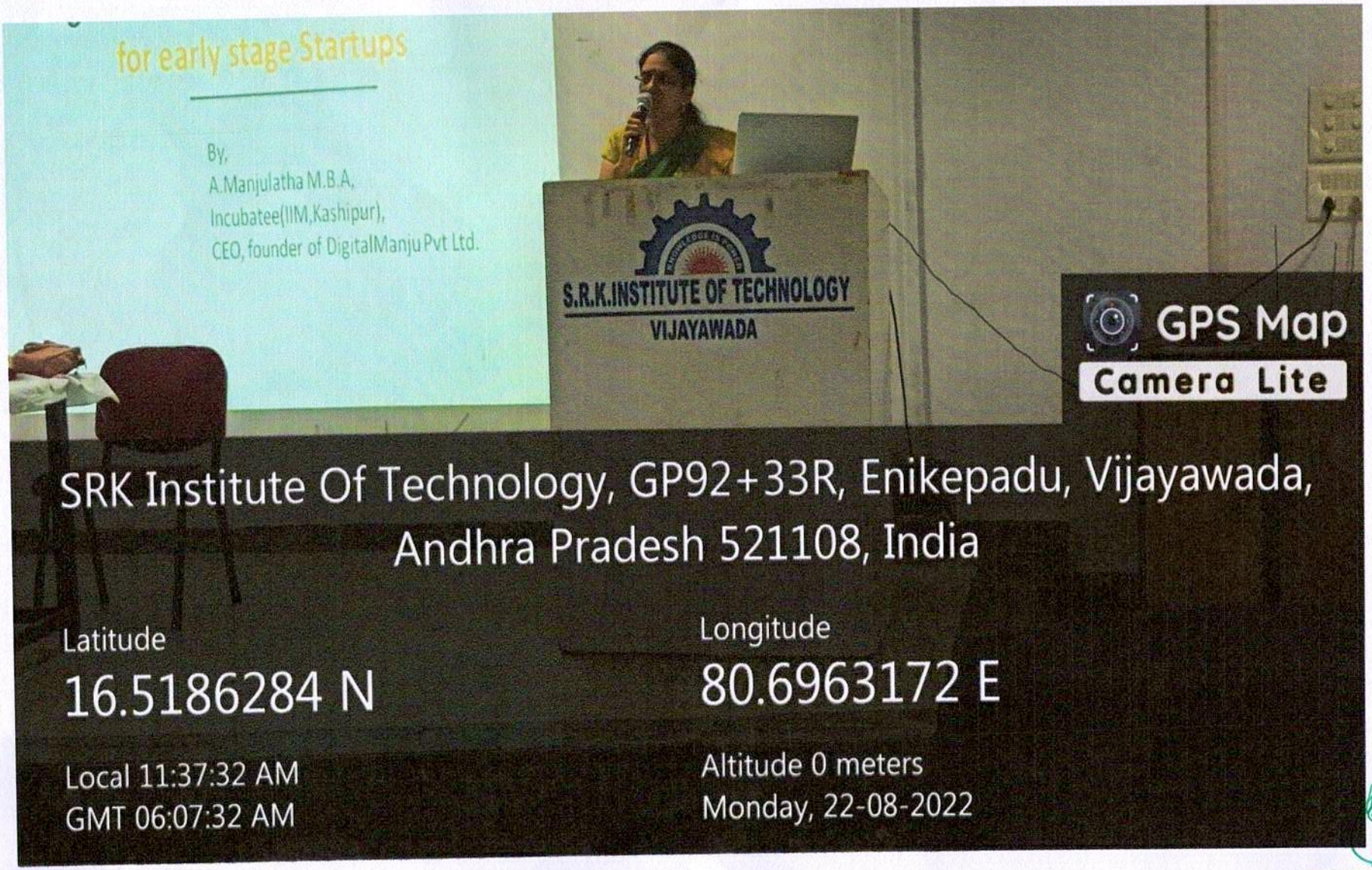
A One Day Workshop on "Angel Investment / VC Funding Opportunity for Early Stage Entrepreneurs on 22/08/2022



Mrs. A. Manjulatha, CEO & Founder – Digitalmanju Pvt Ltd, Vijayawada.

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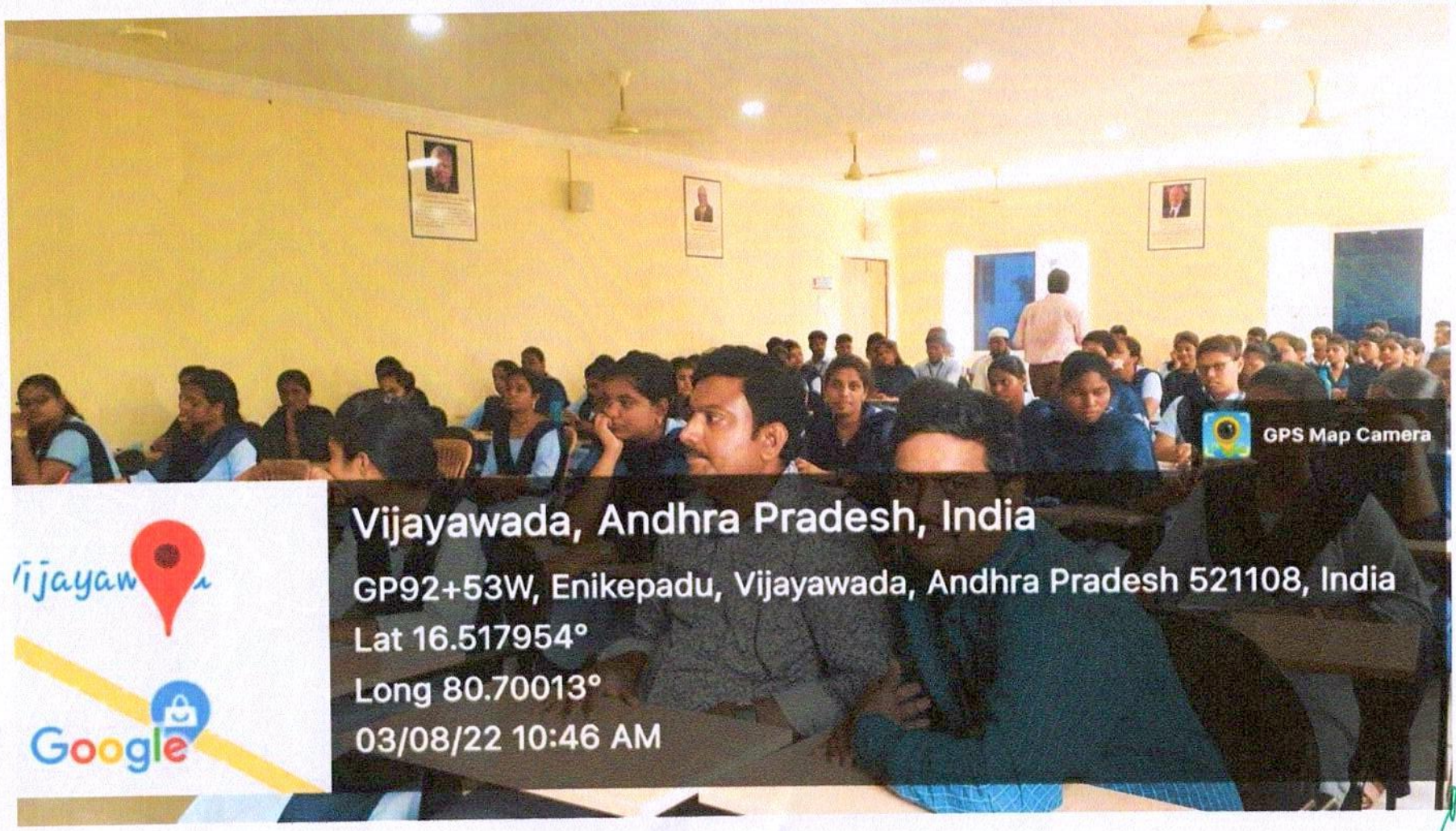
A ONE DAY SEMINAR ON "FUNDAMENTALS OF DERIVATIVES" ON 03-08-2022



Participants at the Seminar on Fundamentals of Derivatives.

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A ONE DAY SEMINAR ON "FUNDAMENTALS OF DERIVATIVES" ON 03-08-2022

Dr. B. Krishnaiah, Assoc. Prof & Head of the Department along with **Mr. SK. Zakir Hussain**, Director – Artha Financial Training Academy at the Inauguration Session.

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Distribution of Shields, Certificates, Cash Prizes to the Winners of Business Quiz

Distribution of Shields, Certificates, Cash Prizes to the Runners of Business Quiz

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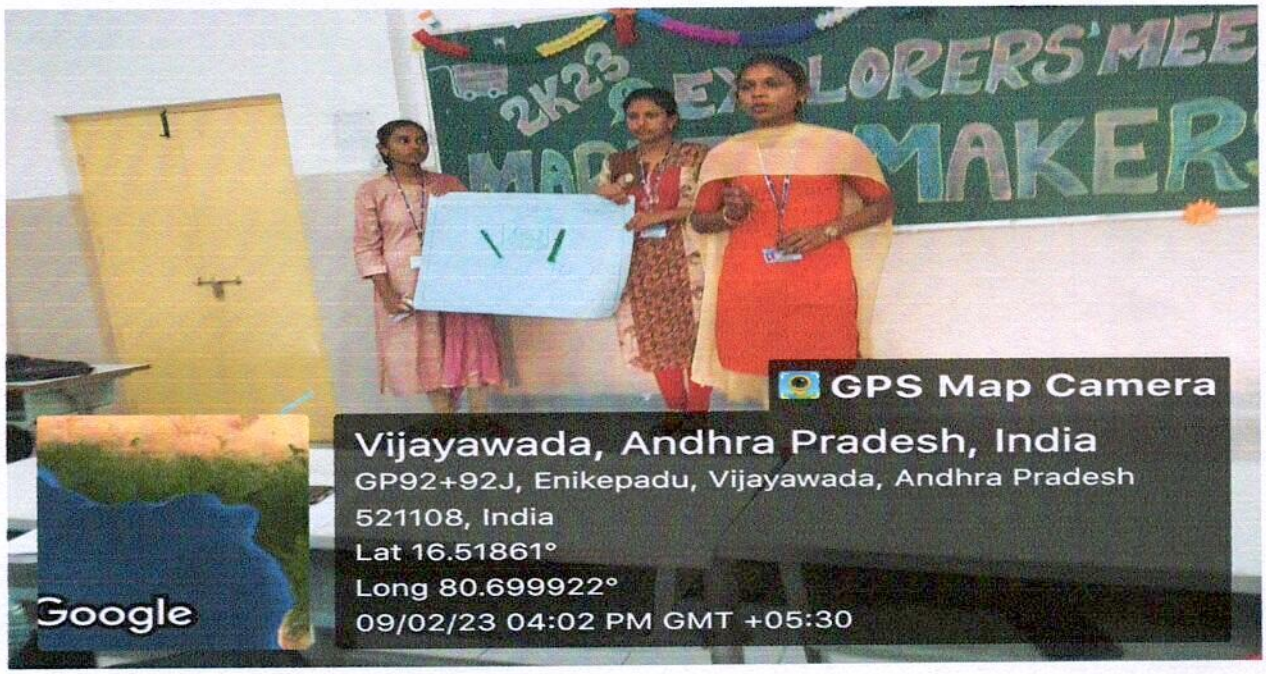

Chart Presentation at Market Makers Event @ Explorers' Meet – 2K23

Presentation of Shield, Certificate & Cash Prizes of Market Makers Runners

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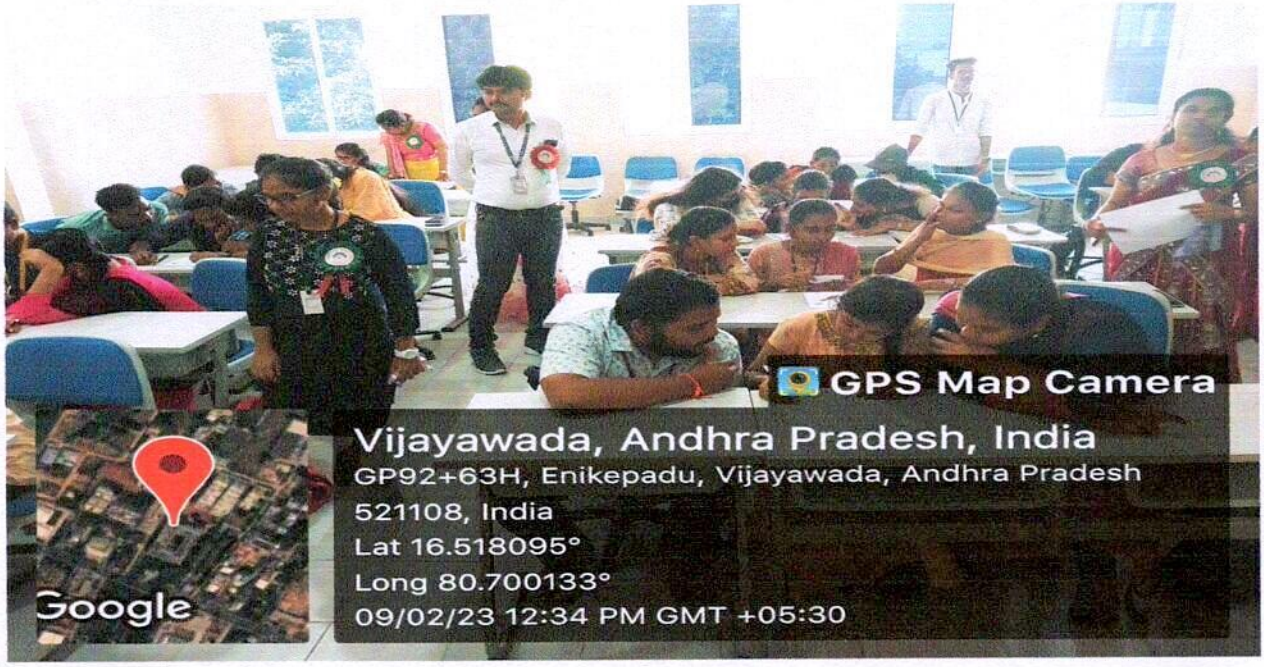

First Round of Market Makers (Written Test) in Explorers' Meet – 2K23

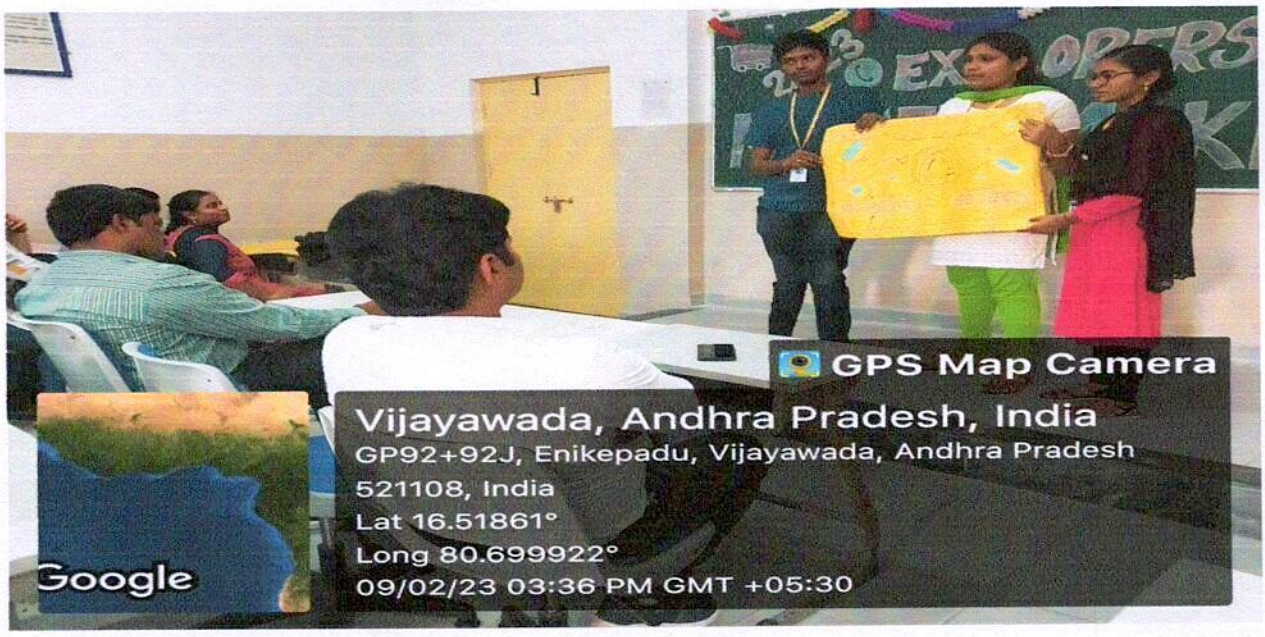

Chart Presentation by the Participating team about their Innovative Product

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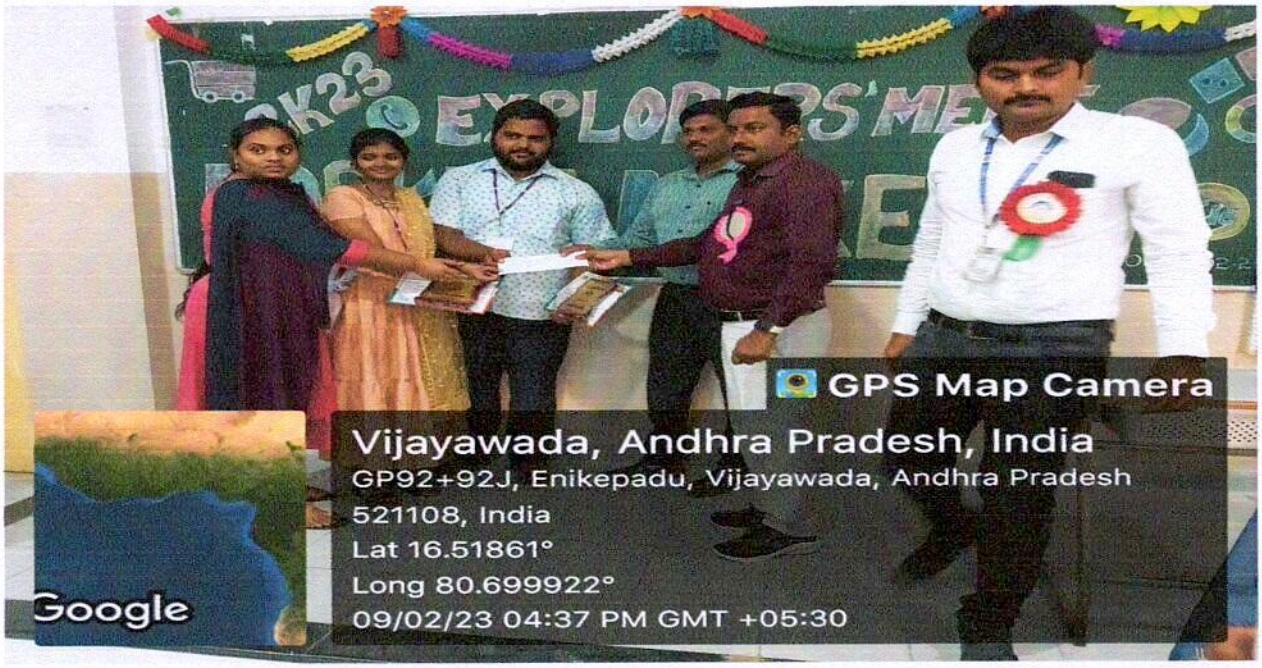
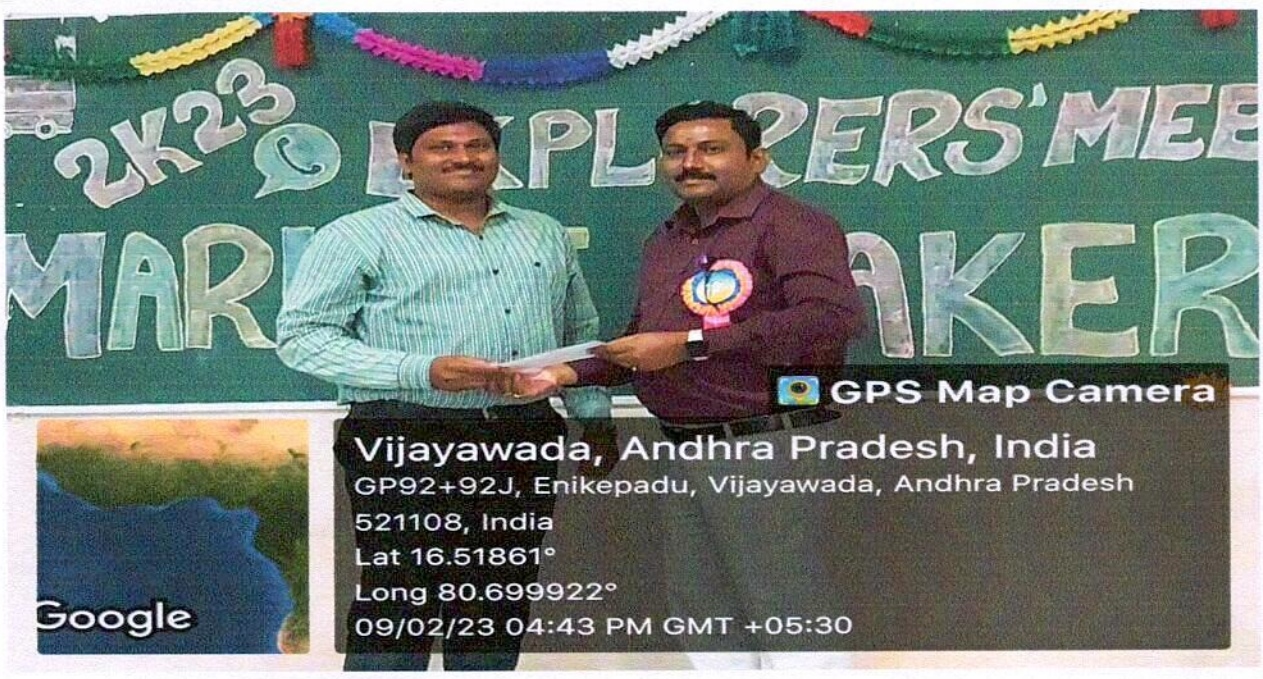


Presentation of Shield, Certificate & Cash Prizes of Market Makers Winners



Presentation of Honorarium to the Market Makers Event Judge, Mr. B. Durga Prasad, Branch Manager- Utkarsh Small Finance Bank, Vijayawada.

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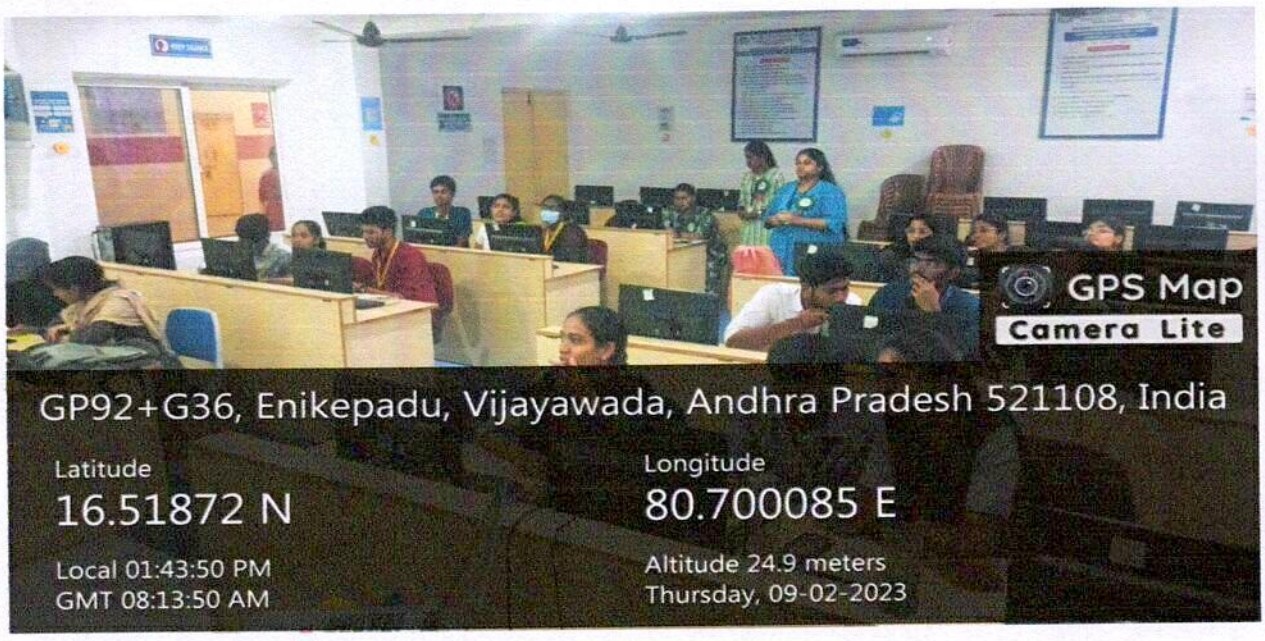
Geo Tagged Photo of the Stock Game First Round at Explorers' Meet 2K23.



Geo Tagged Photo of the Stock Game Second Round at Explorers' Meet 2K23.

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Presentation of Shields, Certificates, Cash Prizes to the Runners of Stock Game.

Presentation of Shields, Certificates, Cash Prizes to the Winners of Stock Game.

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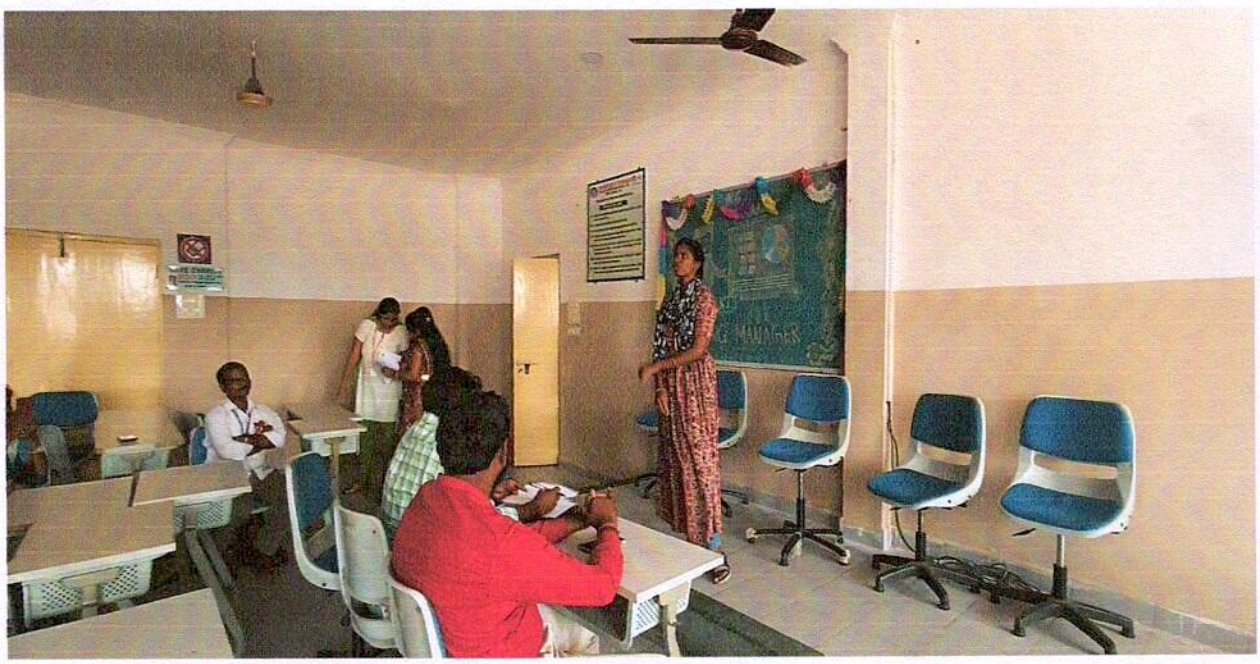
Participants in the Group Discussion Round @ Young Manager Event



Presenting views in the Just-A-Minute Round @ Young Manager Event

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Analysing the Case by the Participant in Case Study Analysis Round

Participant in Stress Interview Round @ Young Manager Event

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Distribution of Memento, Certificate & Cash Prize to the Winner of Young Manager Event

All the Participants of Young Manager Event @ Explorers' Meet – 2K23

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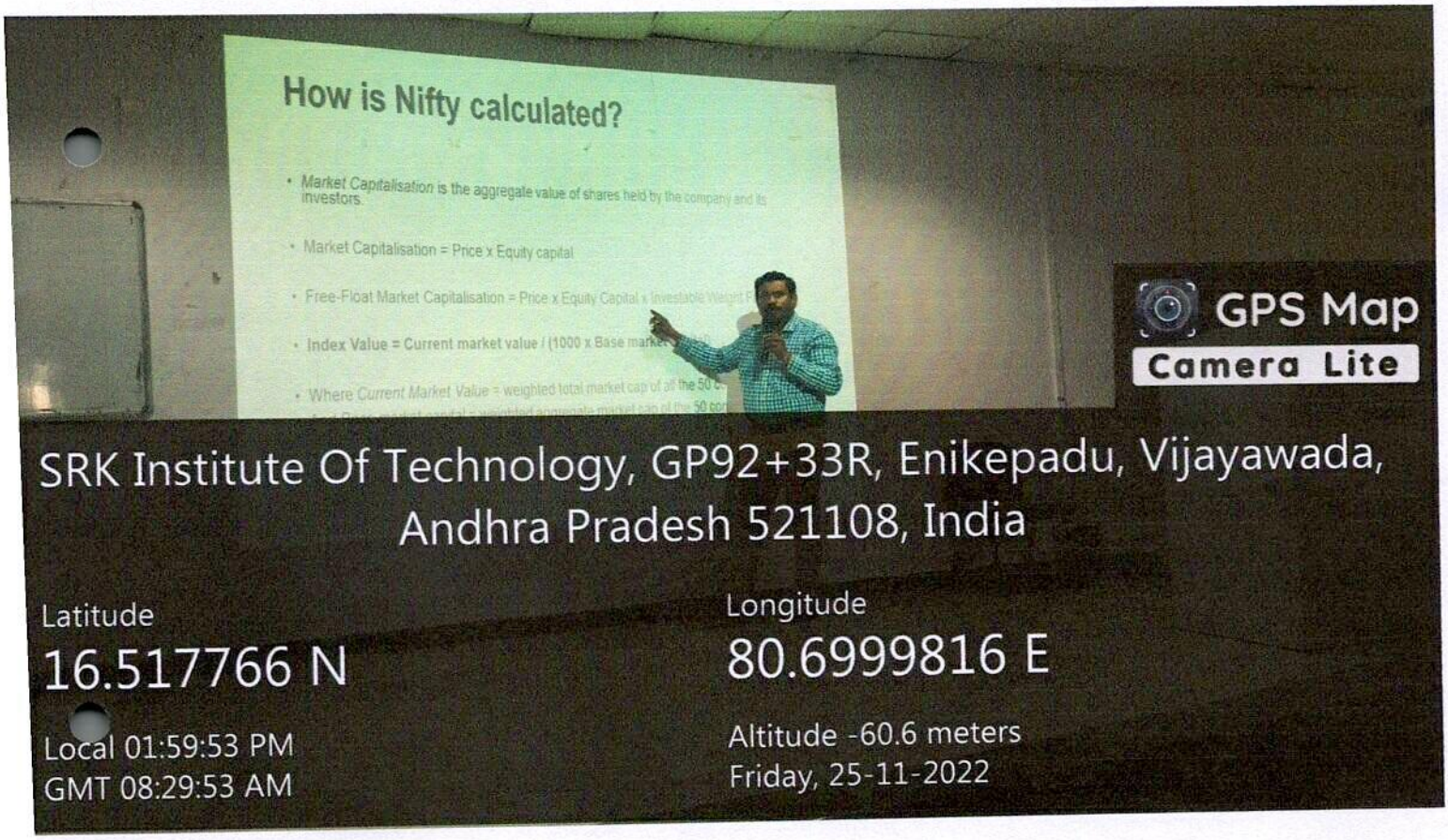

Seminar on NIFTY

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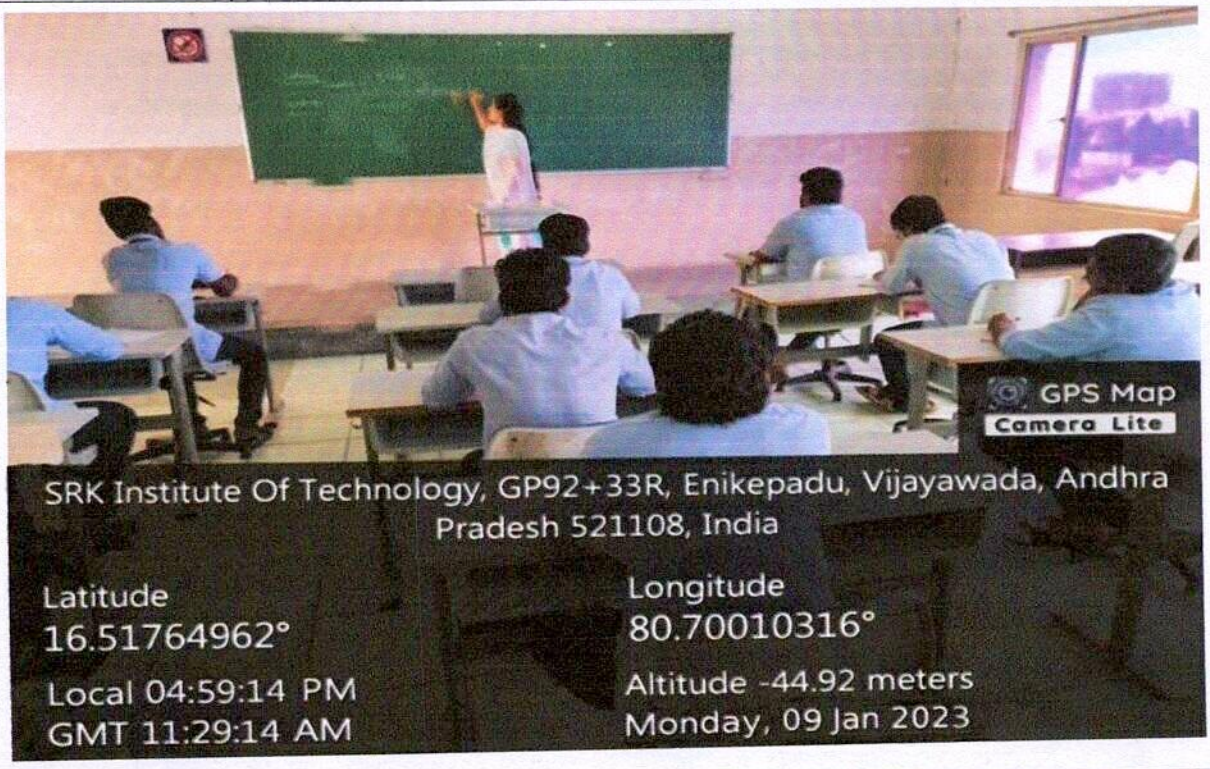

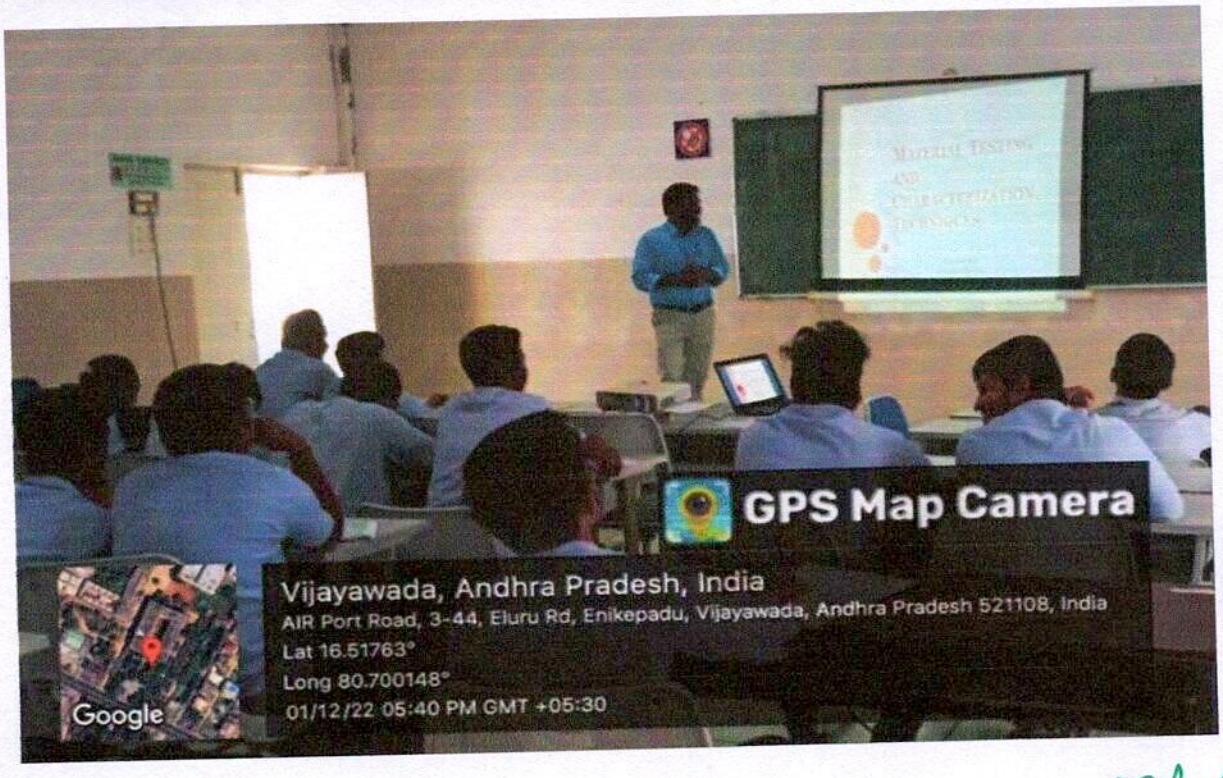

lecture on Material Testing & Orientation Techniques.

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Seminar on Kotak Securities
Asset Classes
Equity
Gold
Property
Kona Kona Shiksha
kotak
Institute Of Technology, GP92+33R, Enikepadu, Vijayawa
Andhra Pradesh 521108, India
Longitude
80.7000333 E
Altitude -60.6 meters
Thursday, 24-11-2022
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Workshop on "Financial Education"

stitute Of Technology, GP92+33R, Enikepadu, Vijay
Andhra Pradesh 521108, India

77292 N

Longitude
80.6999557 E

8:13 AM
8:13 AM

Altitude -60.4 meters
Thursday, 24-11-2022

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lecture on financial Derivatives.

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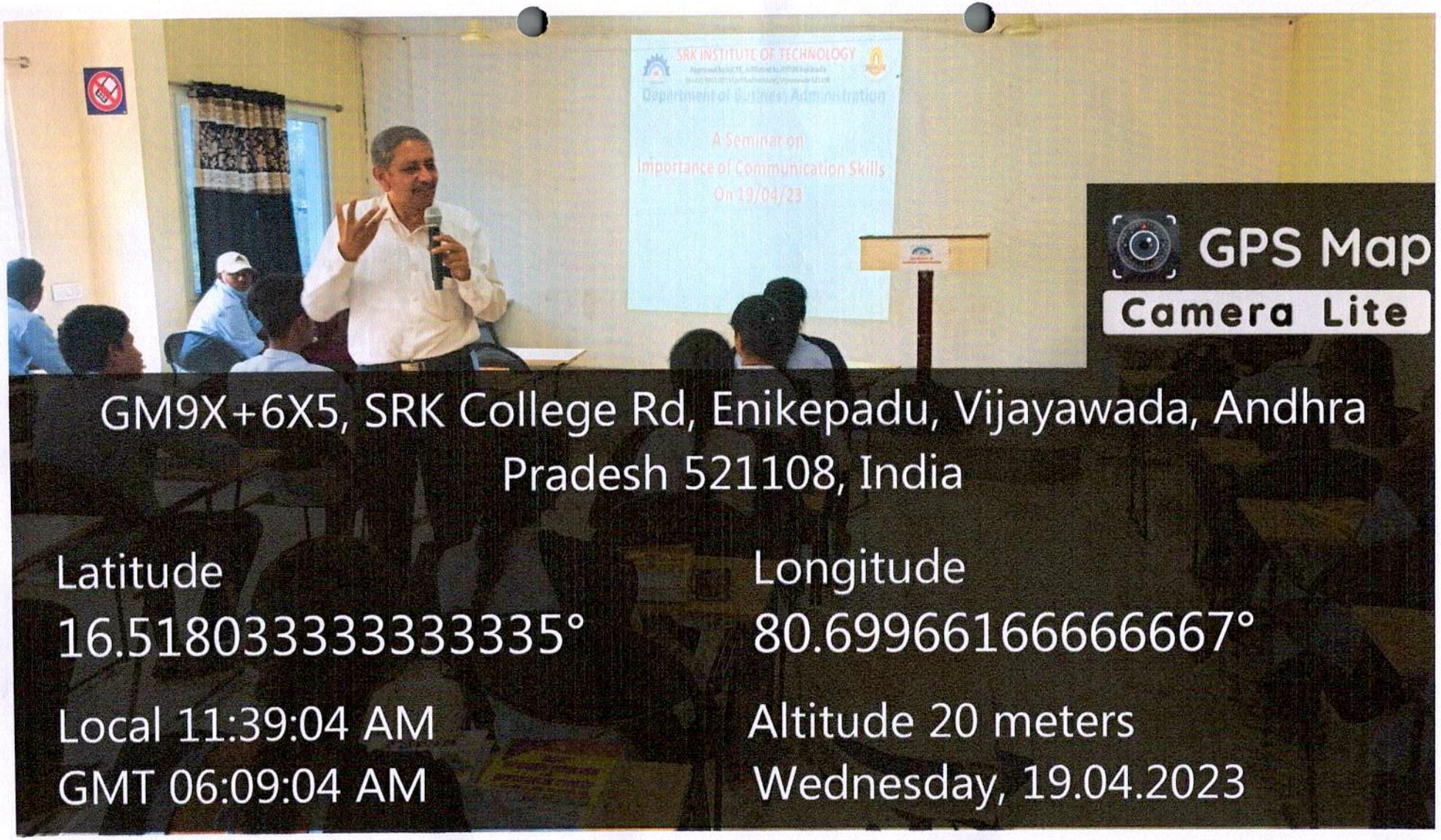

A Seminar on Importance of Communication Skills.

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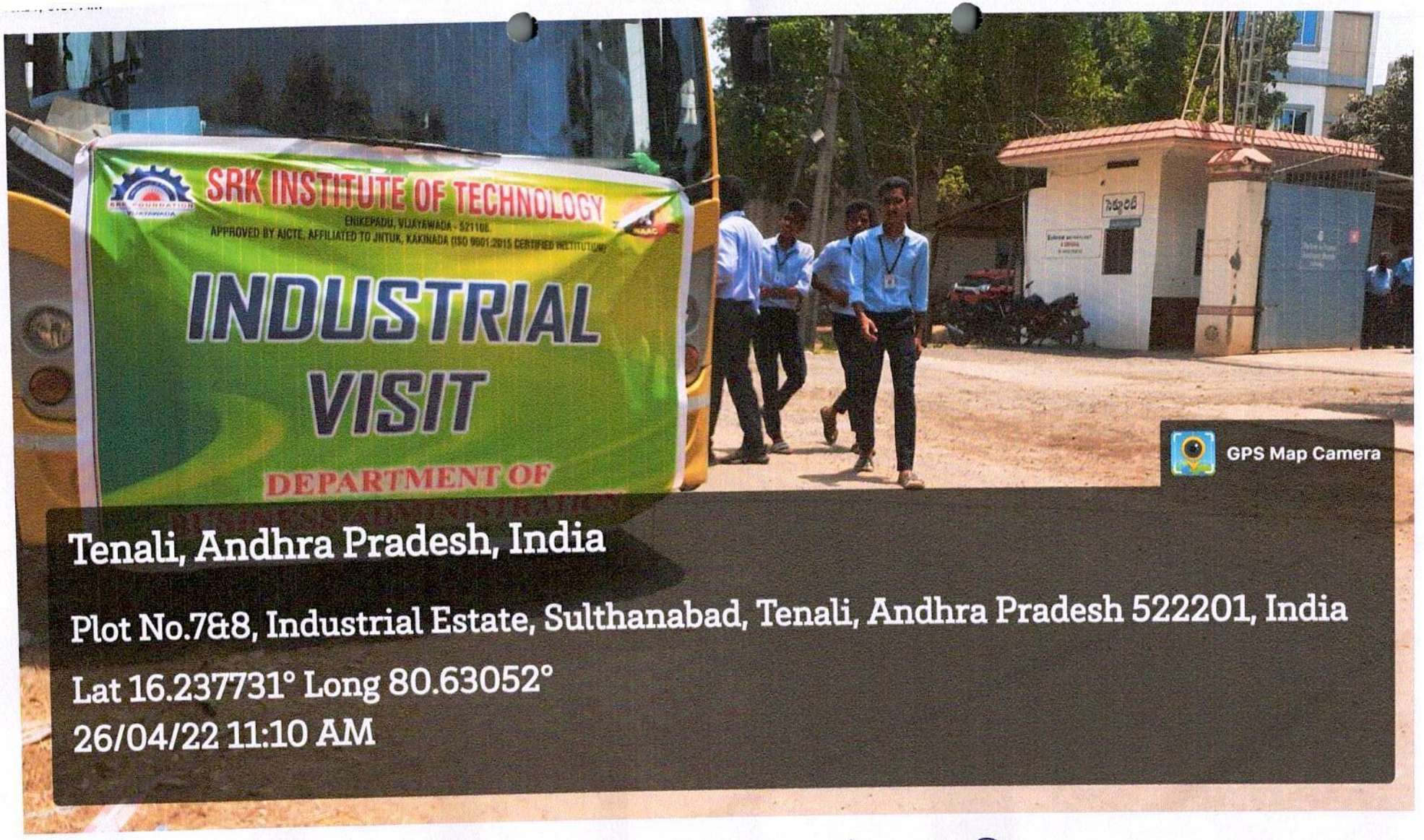

Industrial Visit @ Kirloskar Pumps.

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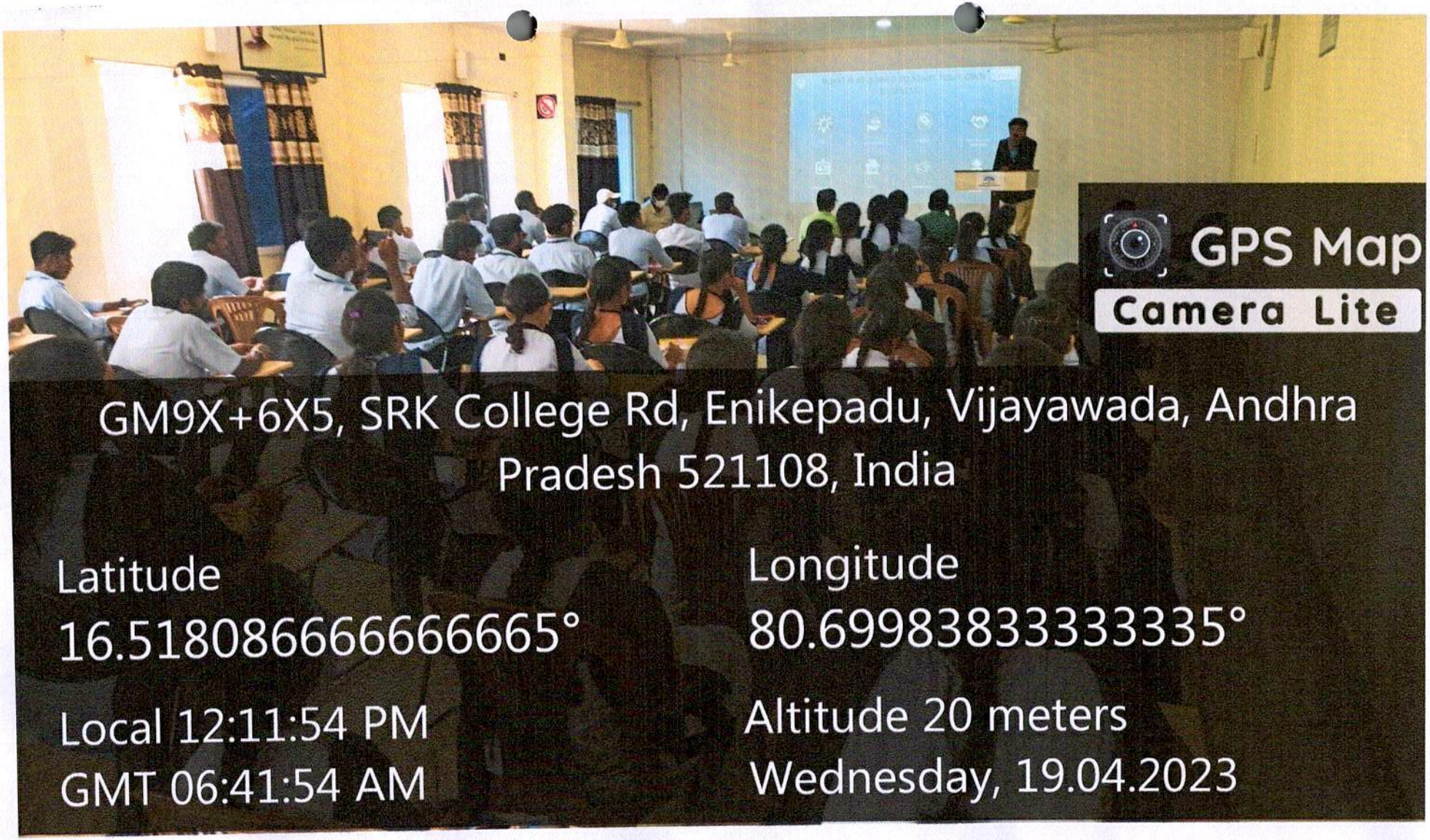

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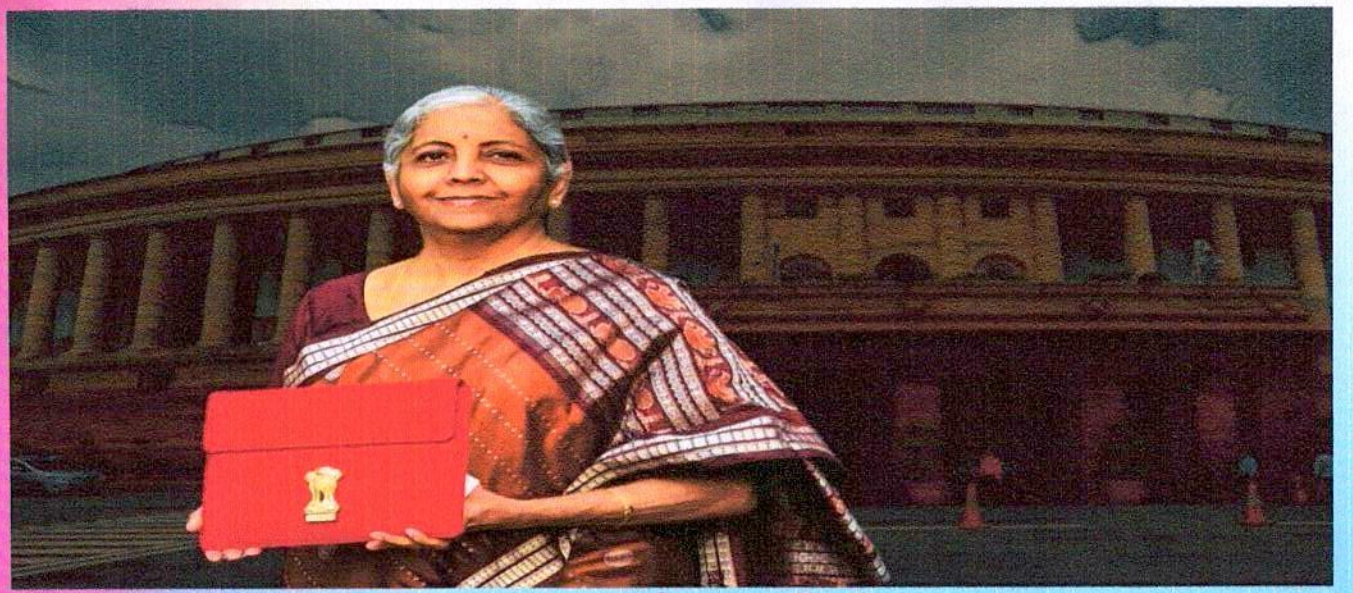
Welcome

Live Screening of Union Budget -2023 on 01-02-2023.



Organised by
Department of Business Administration

A Seminar on Budget 2022-23

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A Seminar on "Entrepreneurship & Innovation".

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Industrial Visit @ JOCIL

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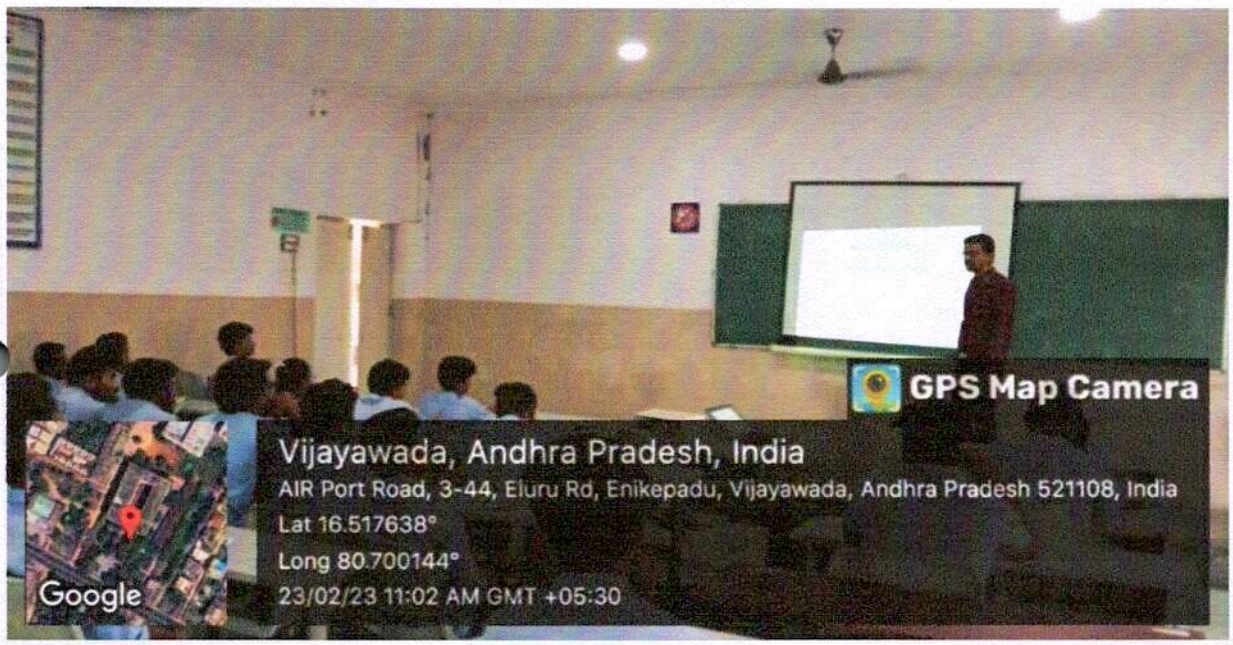

Fig: Presentation on Transmission System

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Fig: Presentation on Mechatronics

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Fig: Presentation on Metallurgy & Materials Science

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Fig: Presentation on Advanced Materials

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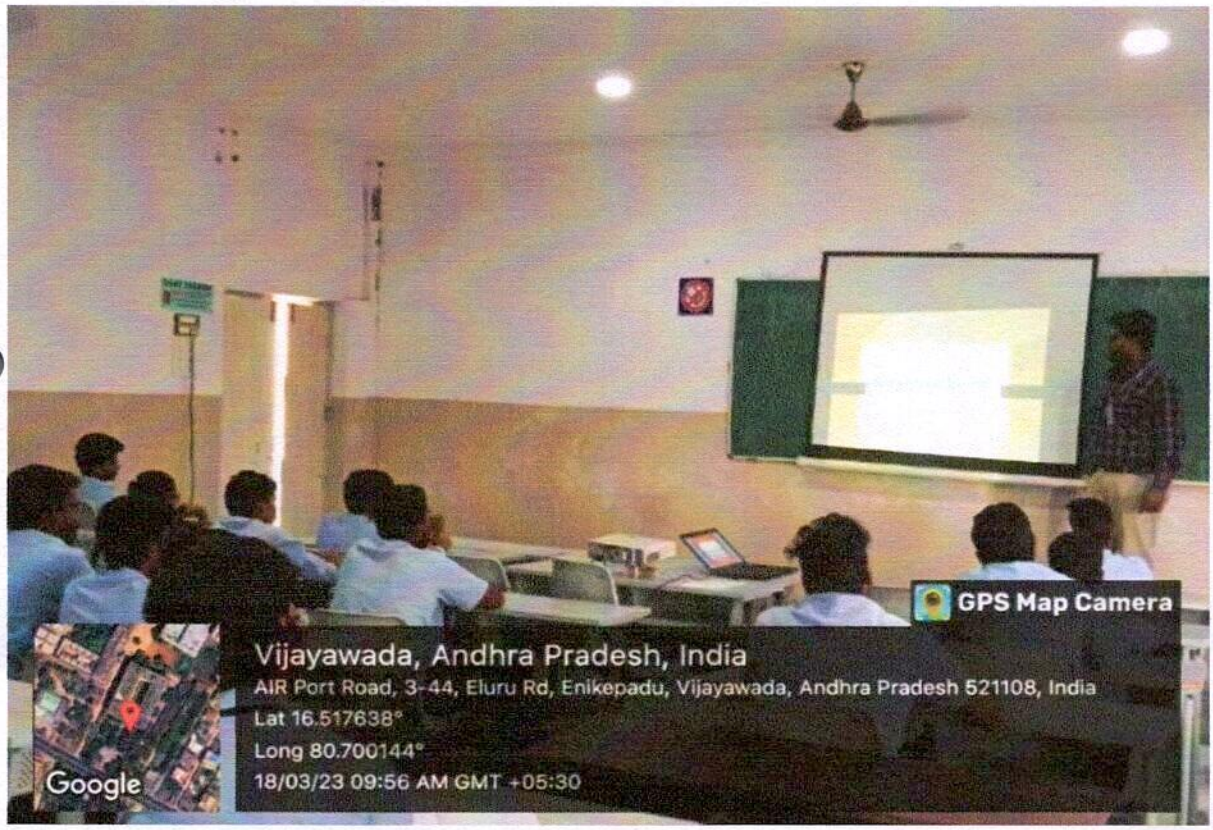

Fig: Presentation on Advanced Materials

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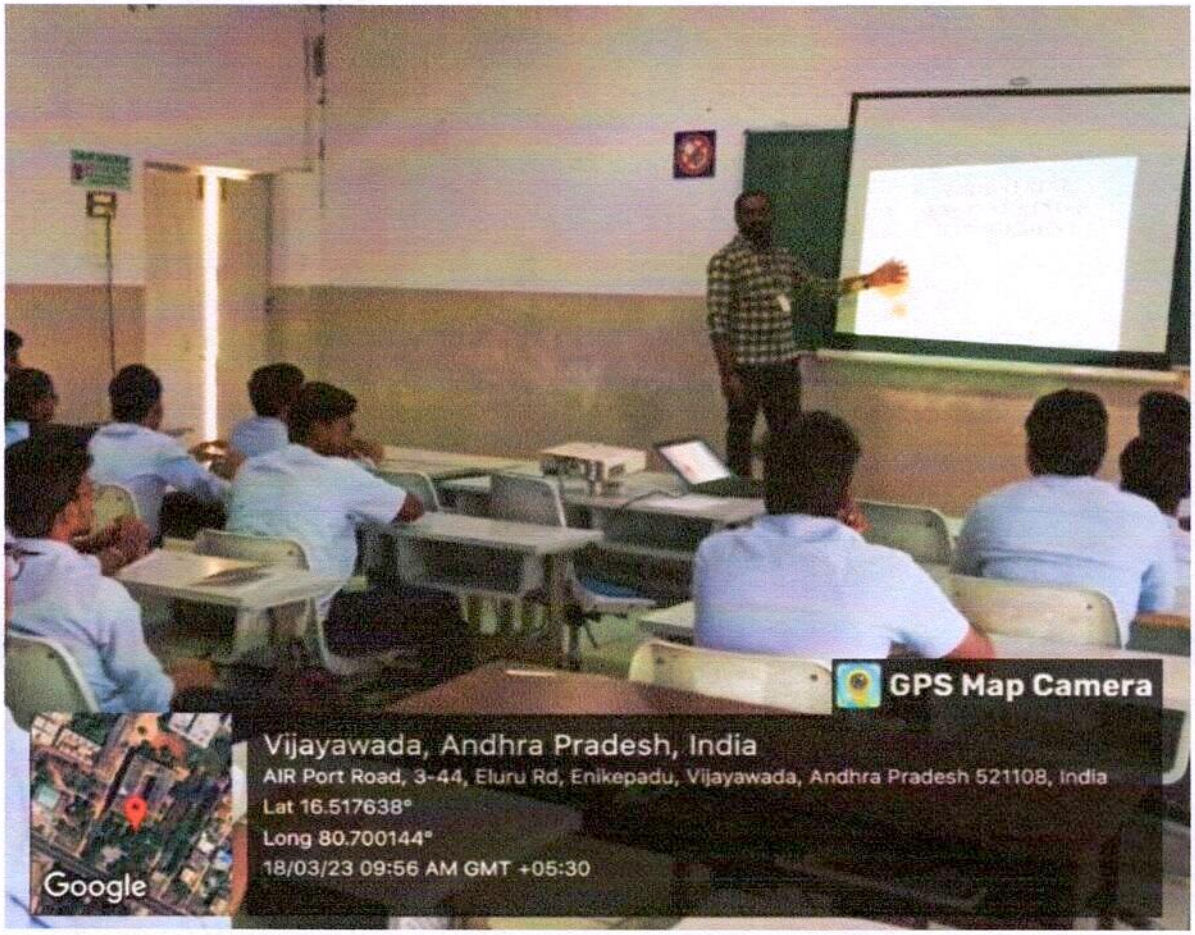

Fig: Presentation on Industrial Engineering & Management

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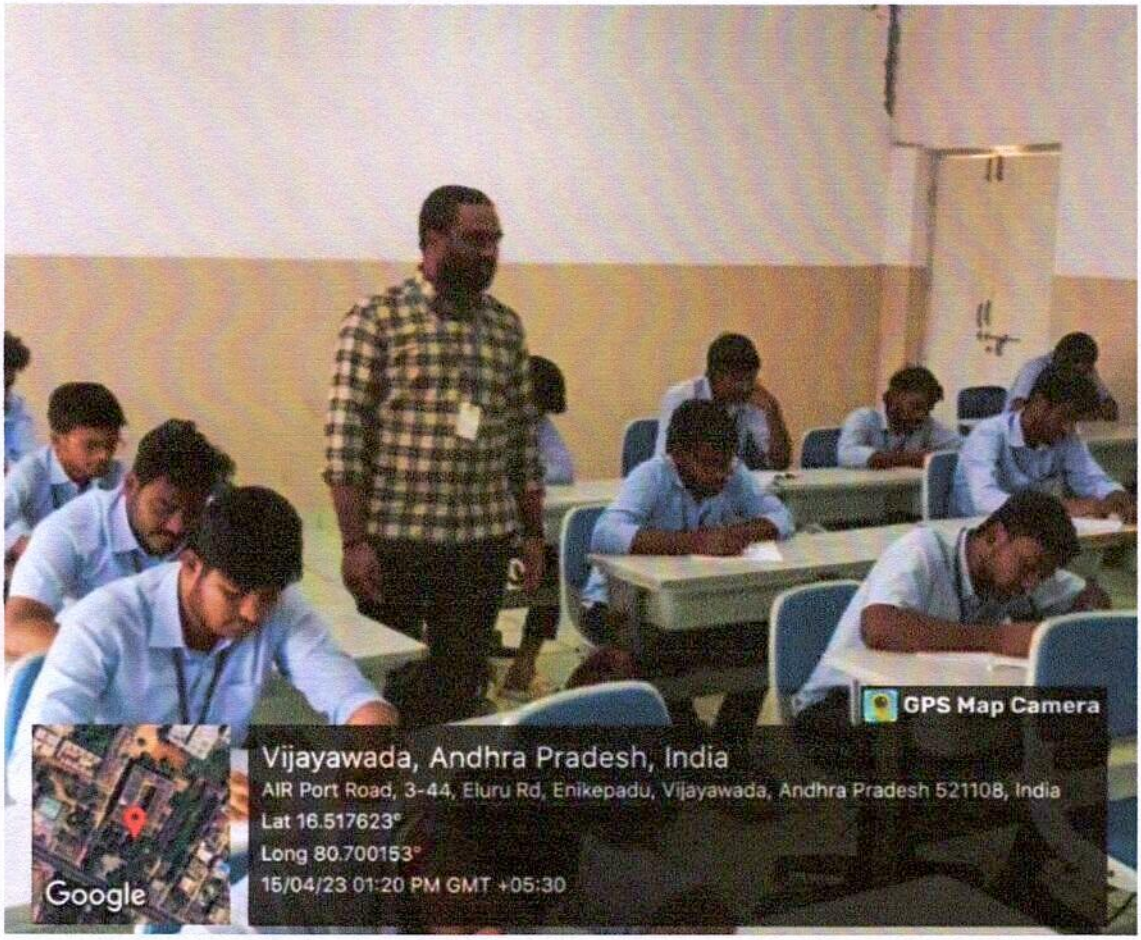

Fig: Students Participating in Industrial Engineering & Management Quiz

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Fig: Students Participating in Metallurgy & Materials Science Quiz

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Fig: Step Turning operation on Lathe

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Fig: Grooving operation on Milling Machine

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Fig: Students Participating in Group Task

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Fig: Seminar on Thermal Engineering-I

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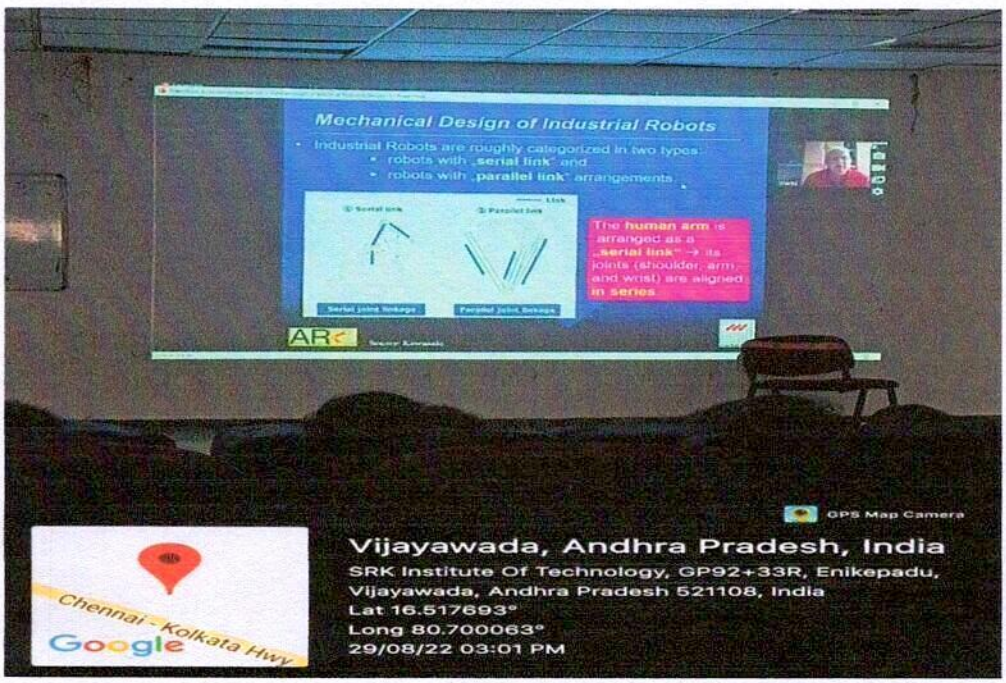

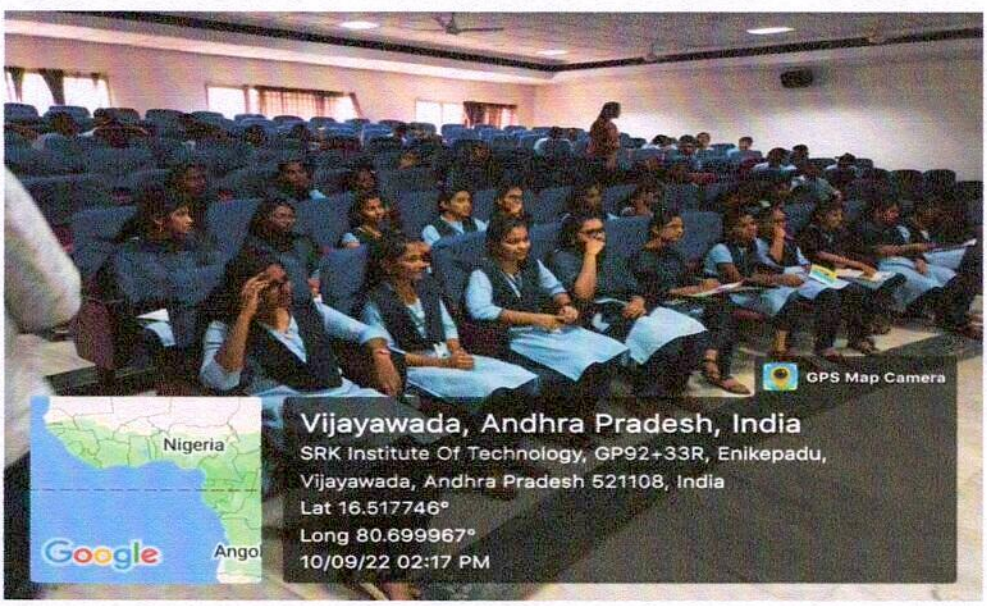

Students attending online sessions

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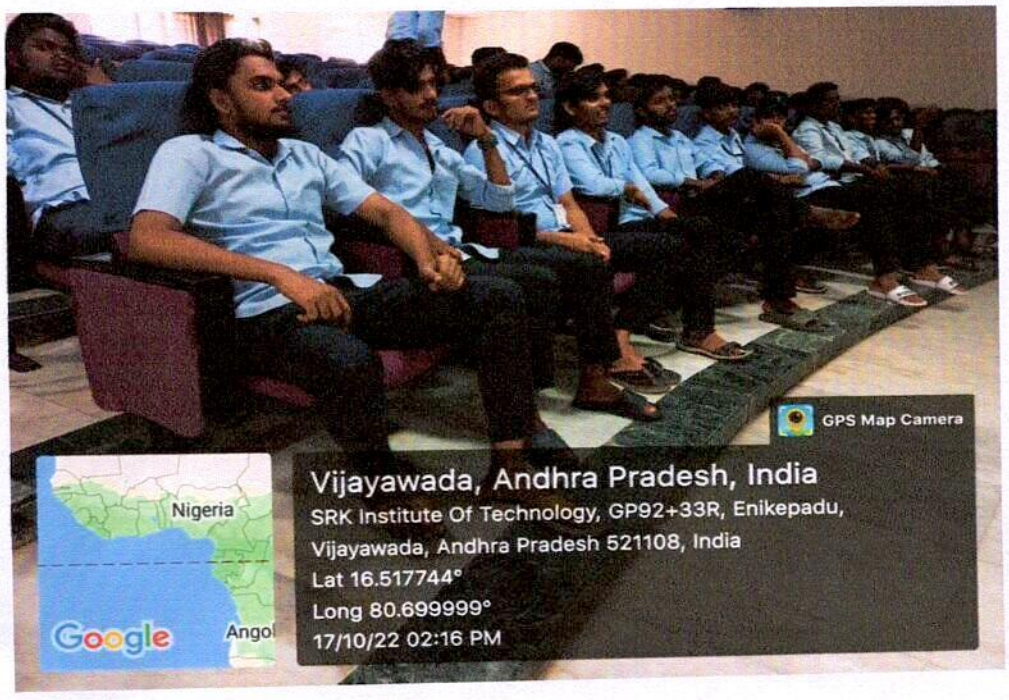

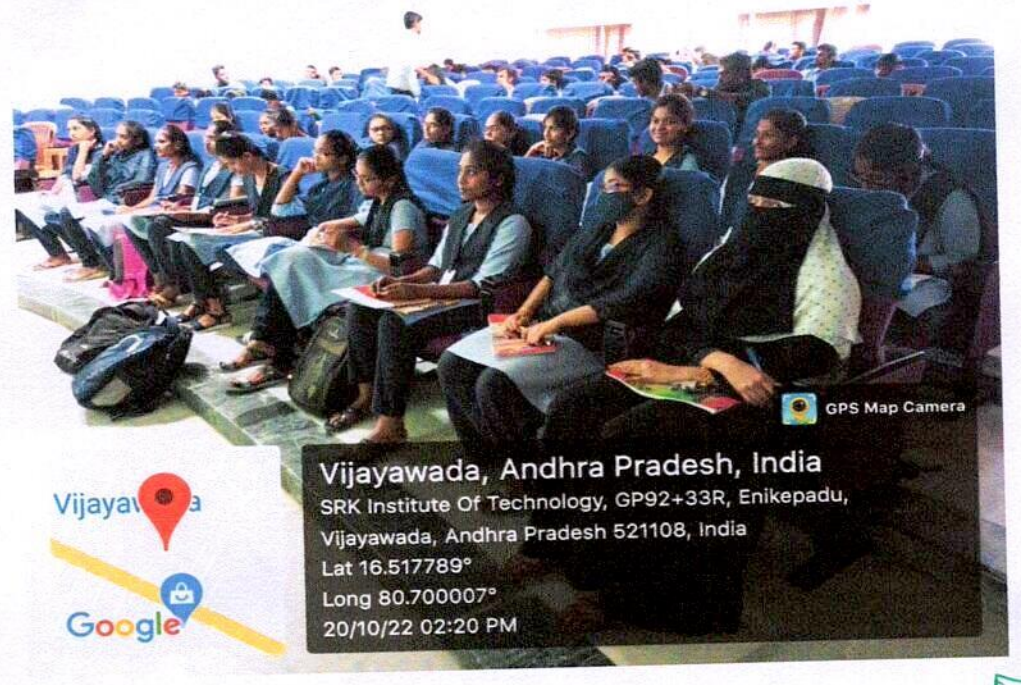

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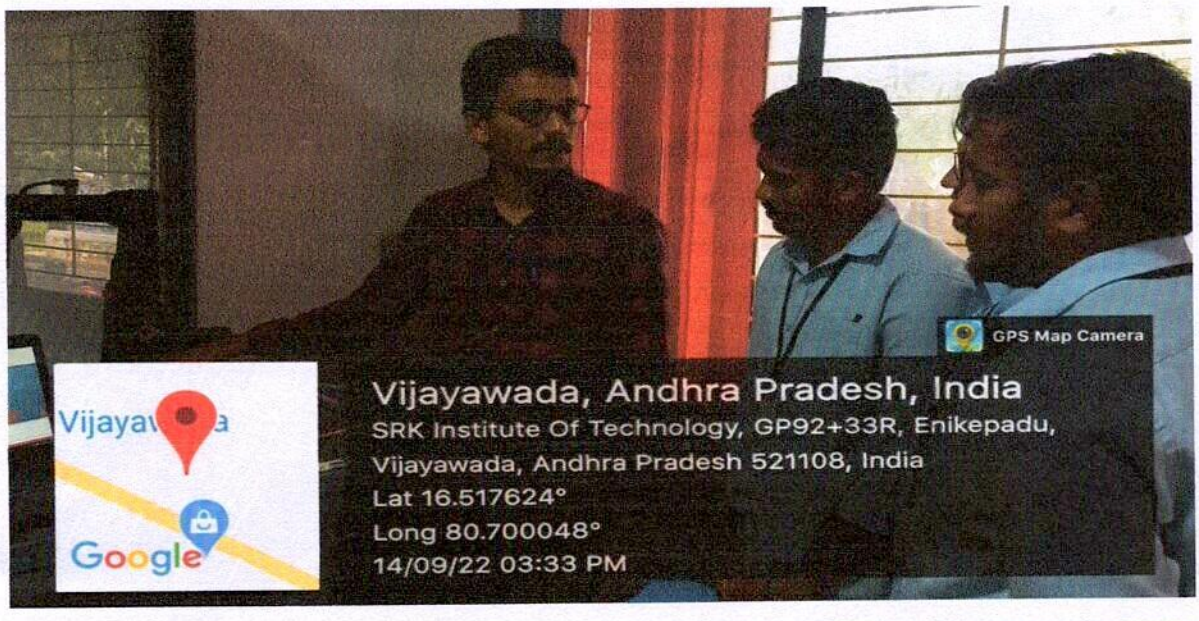

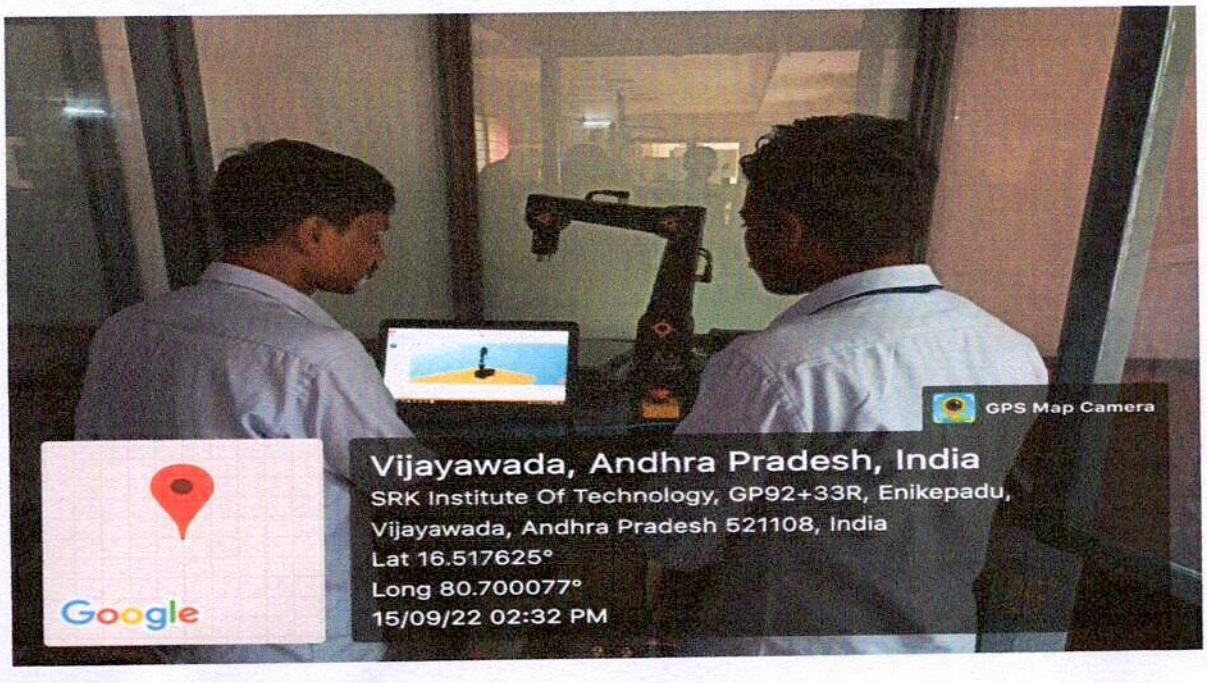

Handson practice on IGUS 4-axis Robot

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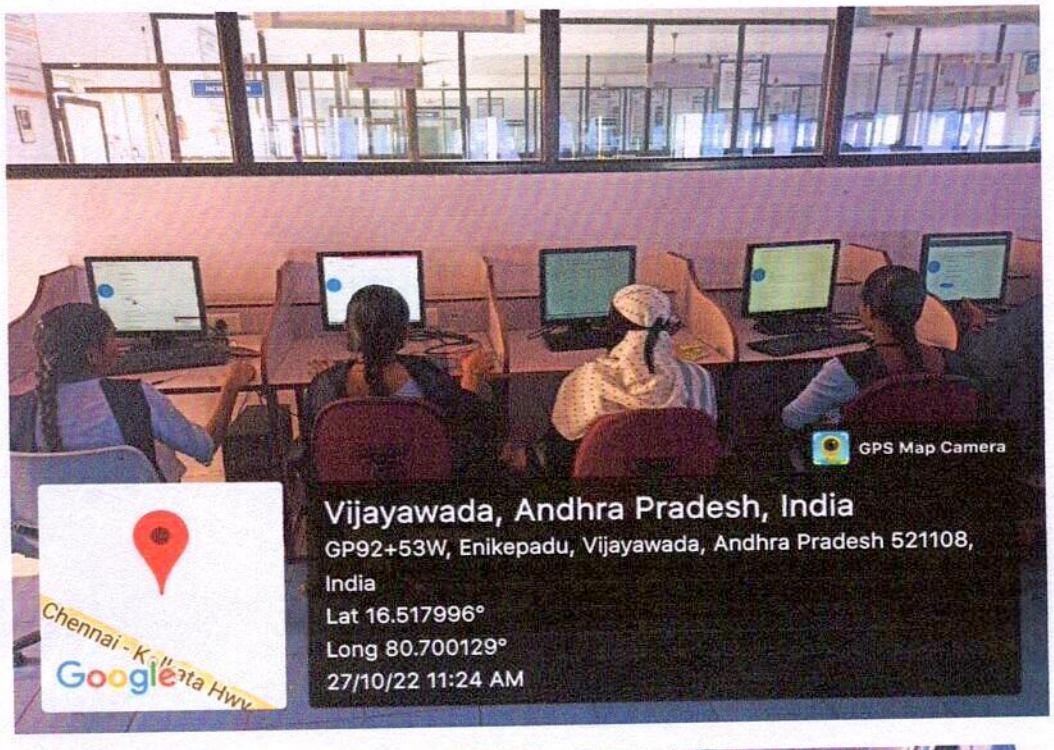

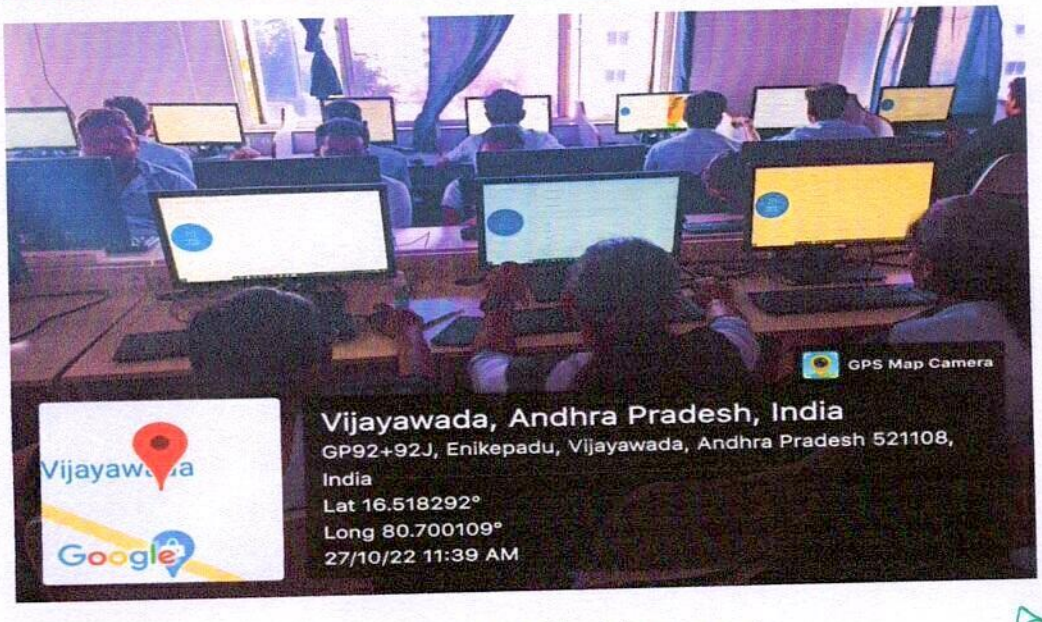

Students attending Final Assessment

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Handson practice on 6-axis Robot

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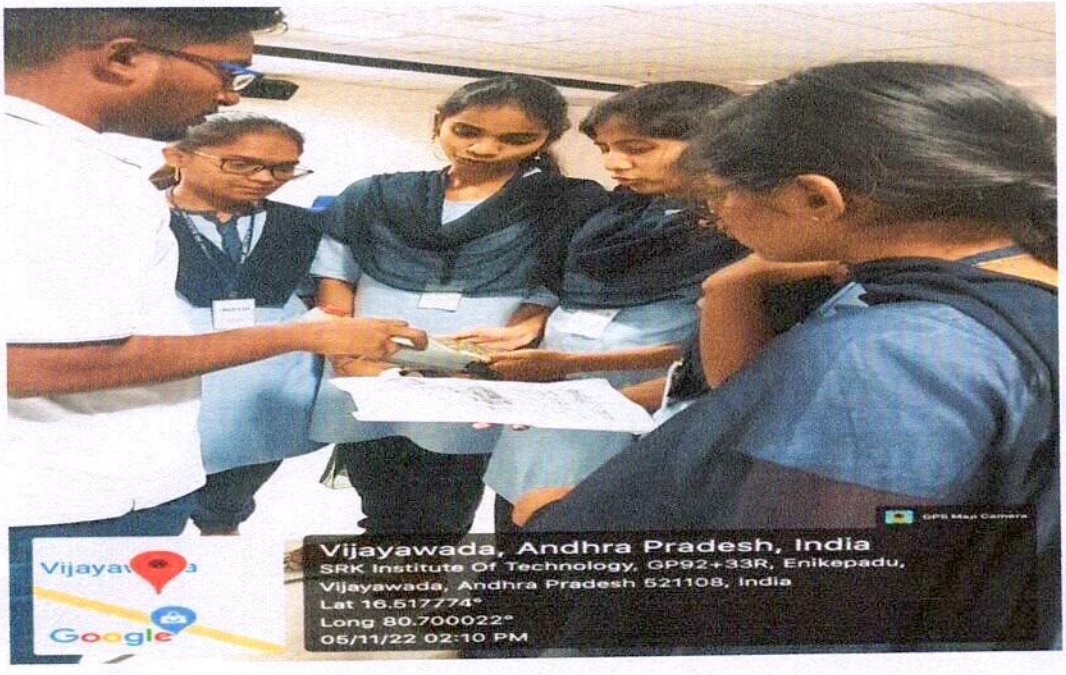

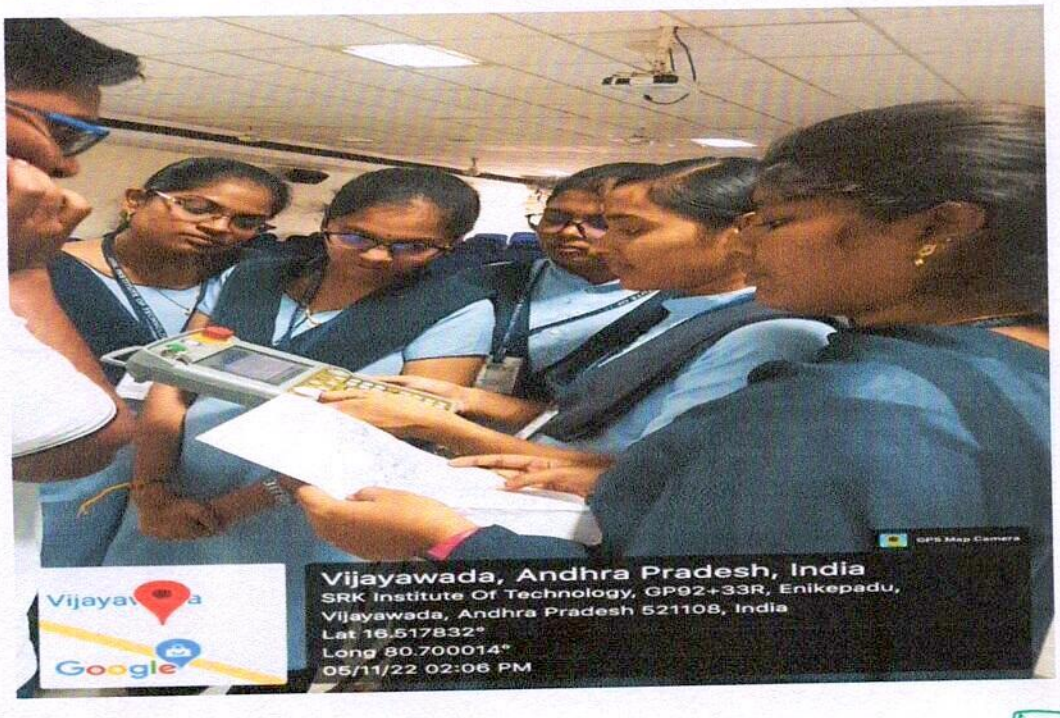

Handson practice on 6-axis Robot

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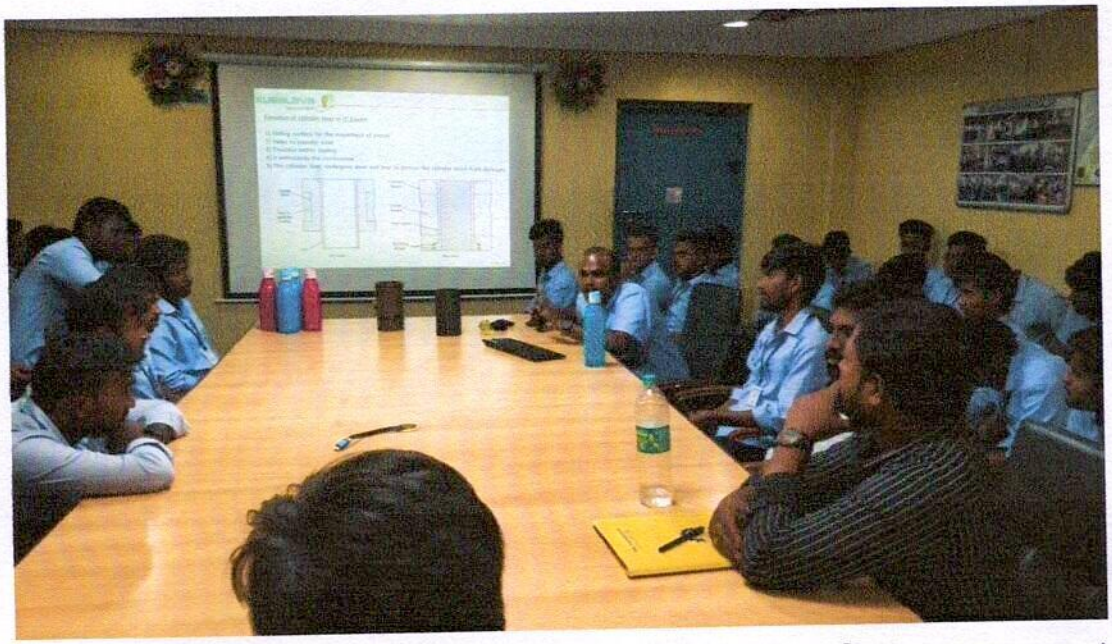

Industrial visits at Kusalava International Pvt. LTD.

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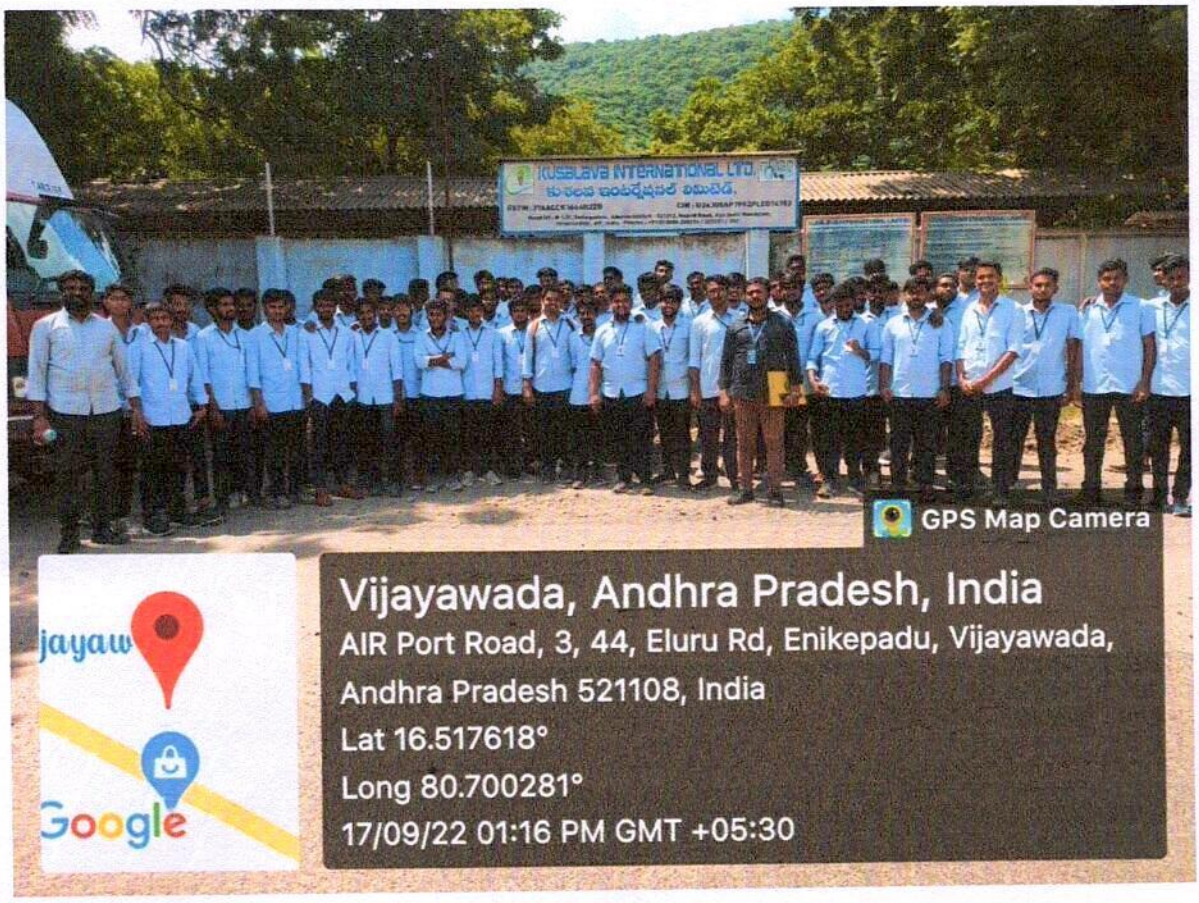

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ATCD

UNIT-1 Formal Language reguler Expression

Languages, Definition languages regular expressions

Finite automata -DFA,NFA

B I U

A **finite state machine** has a set of states and two functions called the next-state function and the output function

The set of states correspond to all the possible combinations of the internal storage If there are n bits of storage, there are 2n possible states

The **next state** function is a combinational logic function that given the inputs and the

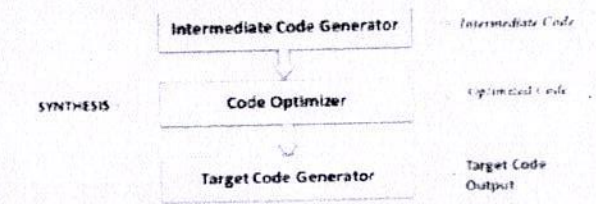
current state, determines the next state of the system

The output function produces a set of outputs from the current state and the inputs

- There are two types of finite state machines
- In a Moore machine, the output only depends on the current

Pedagogical methods

Xmind



PHASES OF COMPILER

lexical Analysis
Syntax Analysis
Semantic Analysis
Intermediate Code Generator
Code Optimizer

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UNIT-1 Formal Languages and reguler Expression

Languages, Definition languages regular expressions

Symbol – An atomic unit, such as a digit, character, lower-case letter, etc. Sometimesa word.[Formal language does not deal with the "meaning" of thesymbols.]

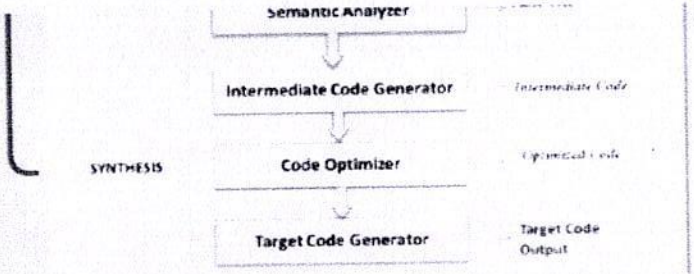
Alphabet – A finite set of symbols, usually denoted byΣ. Σ ={0, 1}

Σ = {0, a,9, 4}

Σ = {a, b, c,d}

String – A finite length sequence of symbols, presumably from some alphabet. w=0110

y=0aa x=aabcaa z = 111



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Syntax Analysis
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Code Optimizer

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UNIT-1 Formal Languages and reguler Expression

- Languages, Definition languages regular expressions
- Finite automata -DFA.NFA
- Conversion of regular expression to NFA
- NFA to DFA
- Application of Finite Automata to lexical analysis

Application of Finite state machine and **regular expression** in **Lexical analysis:**

Lexical analysis is the process of reading the source text of a program and converting that source code into a sequence of tokens.

The approach of design a finite state machine by using regular expression is so useful to generates token form a given source text program.

Since the lexical structure of more or less every programming language can be specified by a regular language, a common way to implement a lexical analysis is to:

1. Specify regular expressions for all of the kinds of tokens

PHASES OF COMPILER

lexical Analysis
Syntax Analysis
Semantic Analysis
Intermediate Code Generator
Code Optimizer
Target Code Generator

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- Languages, Definition languages regular expressions
- Finite automata -DFA,NFA
- Conversion of regular expression to NFA
- NFA to DFA
- ical

ATCD

UNIT-1 Formal Lan, reguler Expression

Conversion from NFA to DFA

Suppose there is an NFA N < Q, Σ, q0, δ, F > which recognizes a language L. Then the DFA D < Q', Σ, q0, δ', F' > can be constructed for language L as:

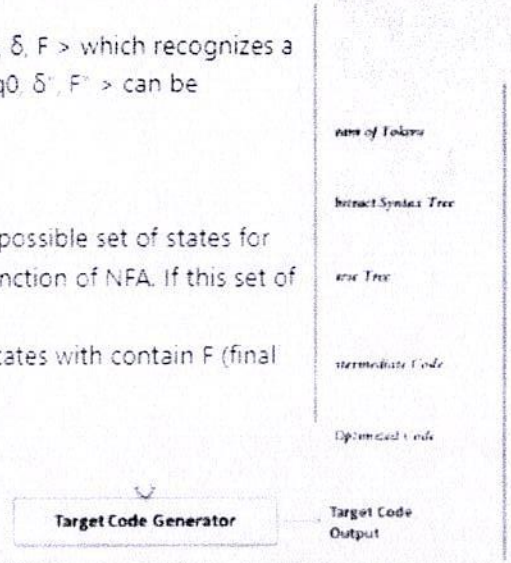
Step 1: Initially Q' = ϕ.

Step 2: Add q0 to Q'.

Step 3: For each state in Q', find the possible set of states for each input symbol using transition function of NFA. If this set of states is not in Q', add it to Q'.

Step 4: Final state of DFA will be all states with contain F (final states of NFA)

example



PHASES OF COMPILER

lexical Analysis
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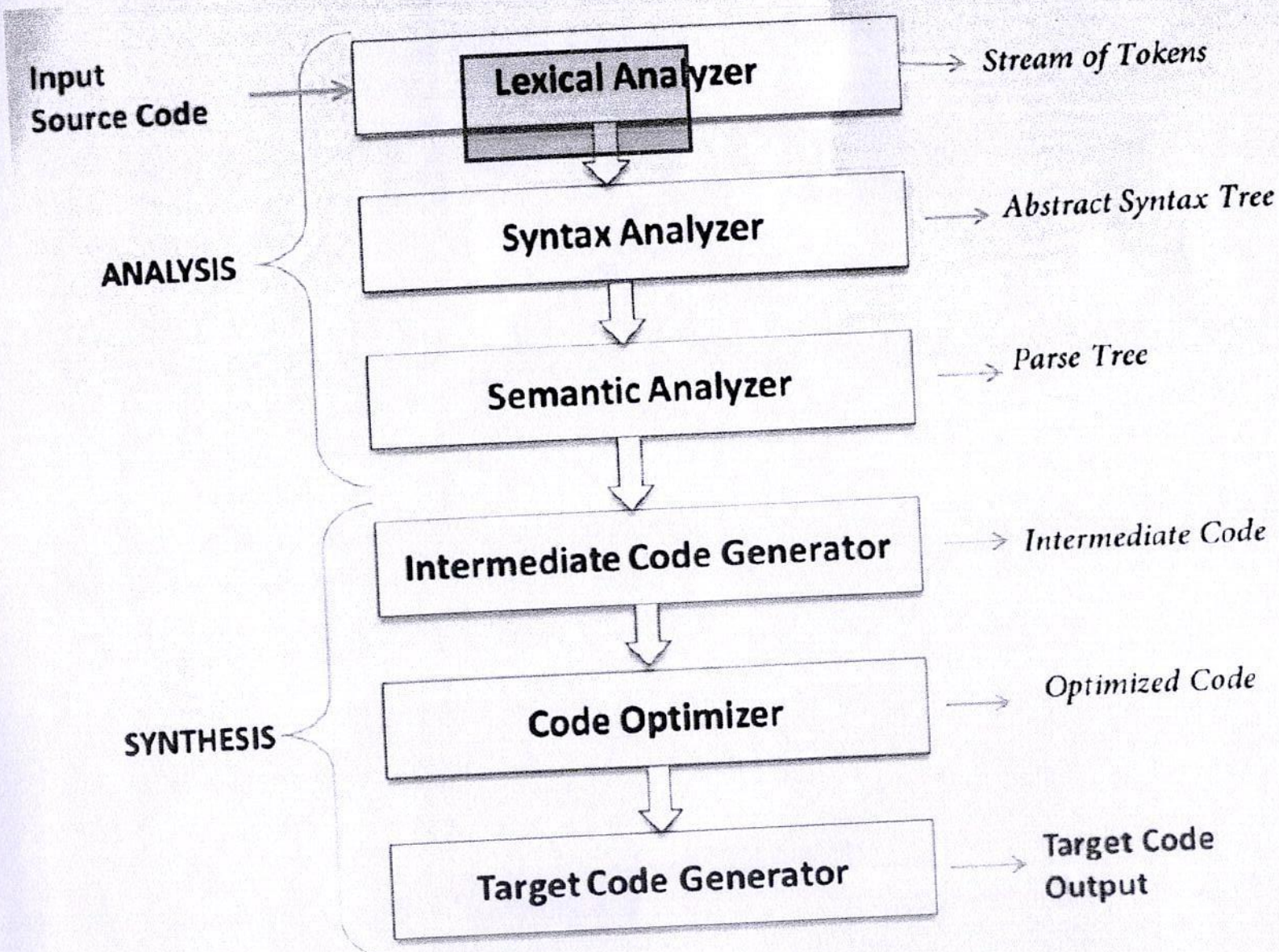

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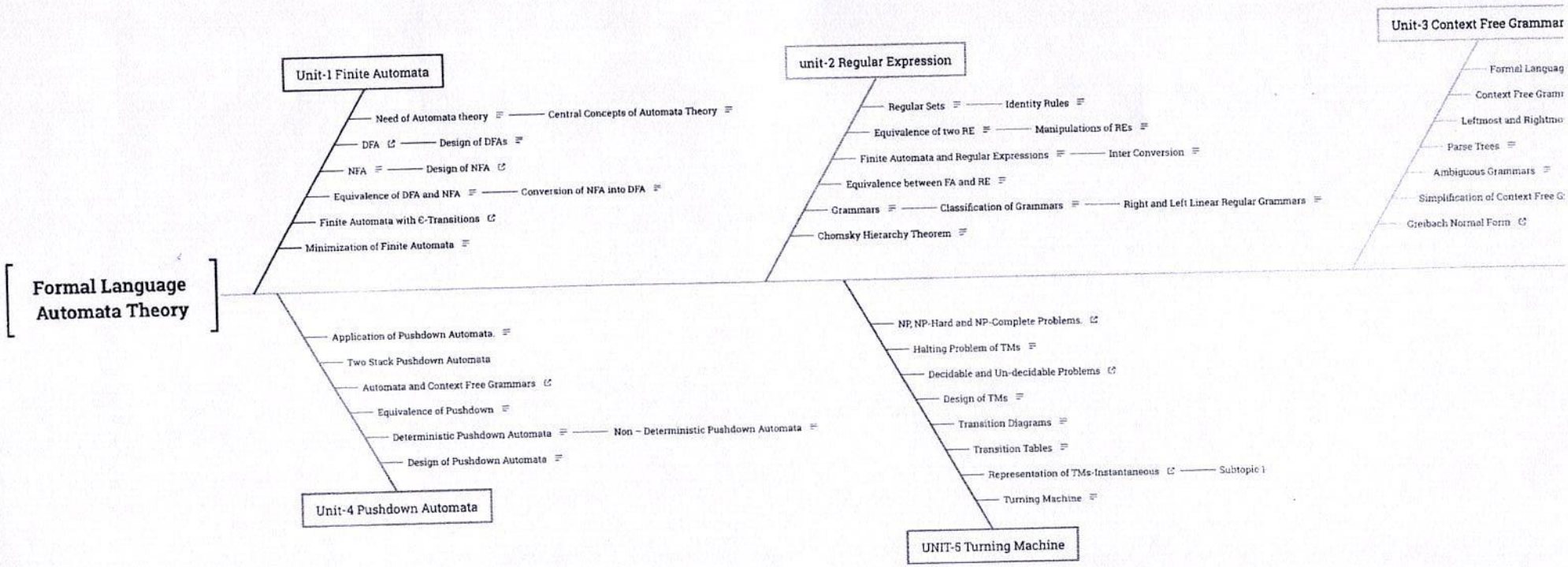

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Machine Learning

Unit-1

- Introduction
  - Artificial Intelligence
  - Machine Learning
  - Deep learning
  - Types of Machine Learning Systems
  - Main Challenges of Machine Learning
- Statistical Learning
  - Introduction
  - Supervised and Unsupervised Learning
  - Training and Test Loss
  - Tradeoffs in Statistical Learning
  - Estimating Risk Statistics
  - Sampling distribution of an estimator
  - Empirical Risk Minimization

Unit-2: Supervised Learning

- Basic Methods
  - Distance based Methods
  - Nearest Neighbours
  - Decision Trees
  - Naive Bayes
- Linear Models
  - Linear Regression
  - Logistic Regression
  - Generalized Linear Models
  - Support Vector Machines
- Binary Classification
  - Multiclass/Structured outp
  - MNIST
  - Ranking

Unit-3

- Ensemble Learning and Random Forests
  - Introduction
  - Voting Classifiers
  - Bagging
  - Pasting
  - Random Forests
  - Boosting
  - Stacking
- Support Vector Machine
  - Linear SVM Classification
  - Nonlinear SVM Classification
  - SVM Regression
  - Naive Bayes Classifiers

Unit-4

- Unsupervised Learning Techniques
  - Clustering
  - K-Means
  - Limits of K-Means
  - Using Clustering for Image Segmentation
  - Using Clustering for Preprocessing
  - Using Clustering for Semi-Supervised Learning
  - DBSCAN
  - Gaussian Mixtures
- Dimensionality Reduction
  - The Curse of Dimensionality
  - Main Approaches for Dimensionality Reduction
  - PCA
  - Using Scikit-Learn
  - Randomized PCA
  - Kernel PCA

Unit-5: Neural Networks and Deep Learning

- Introduction to Artificial Neural Networks with Keras
- Implementing MLPs with Keras
- Installing TensorFlow 2
- Loading and pre-processing Data with Tensor Flow

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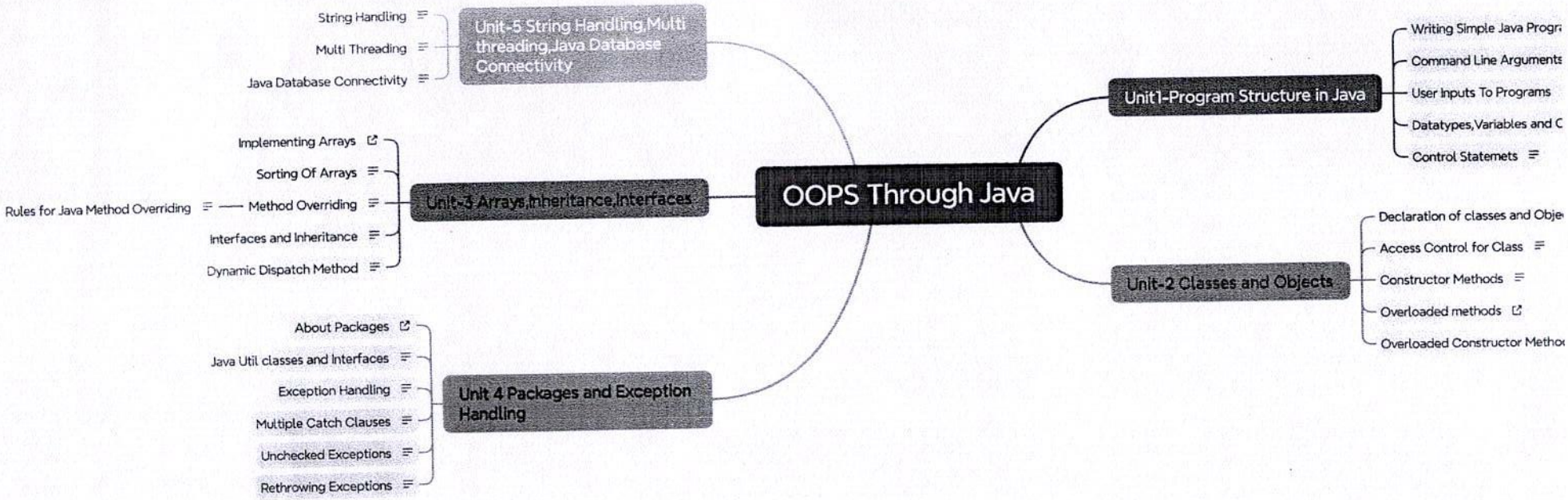

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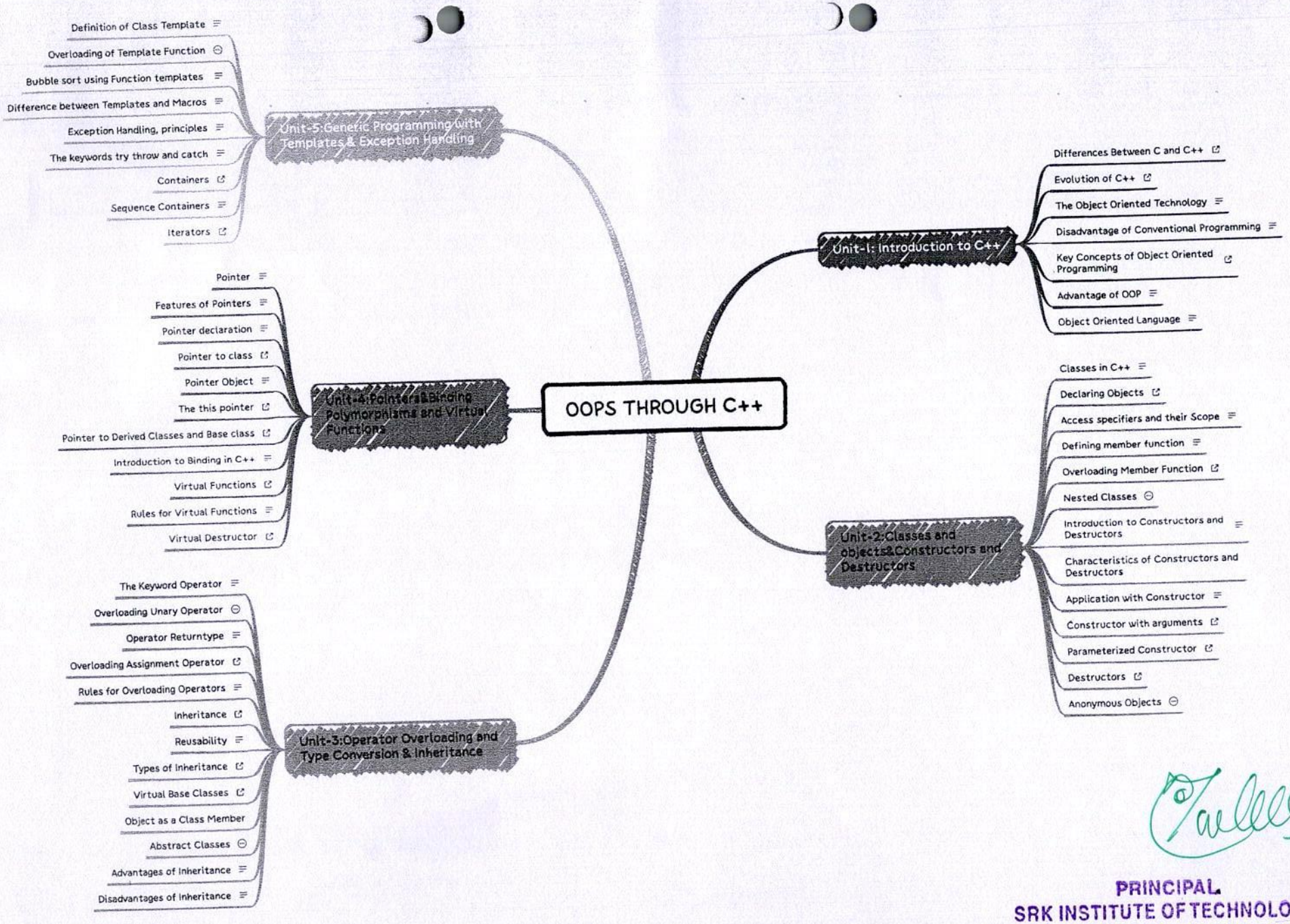

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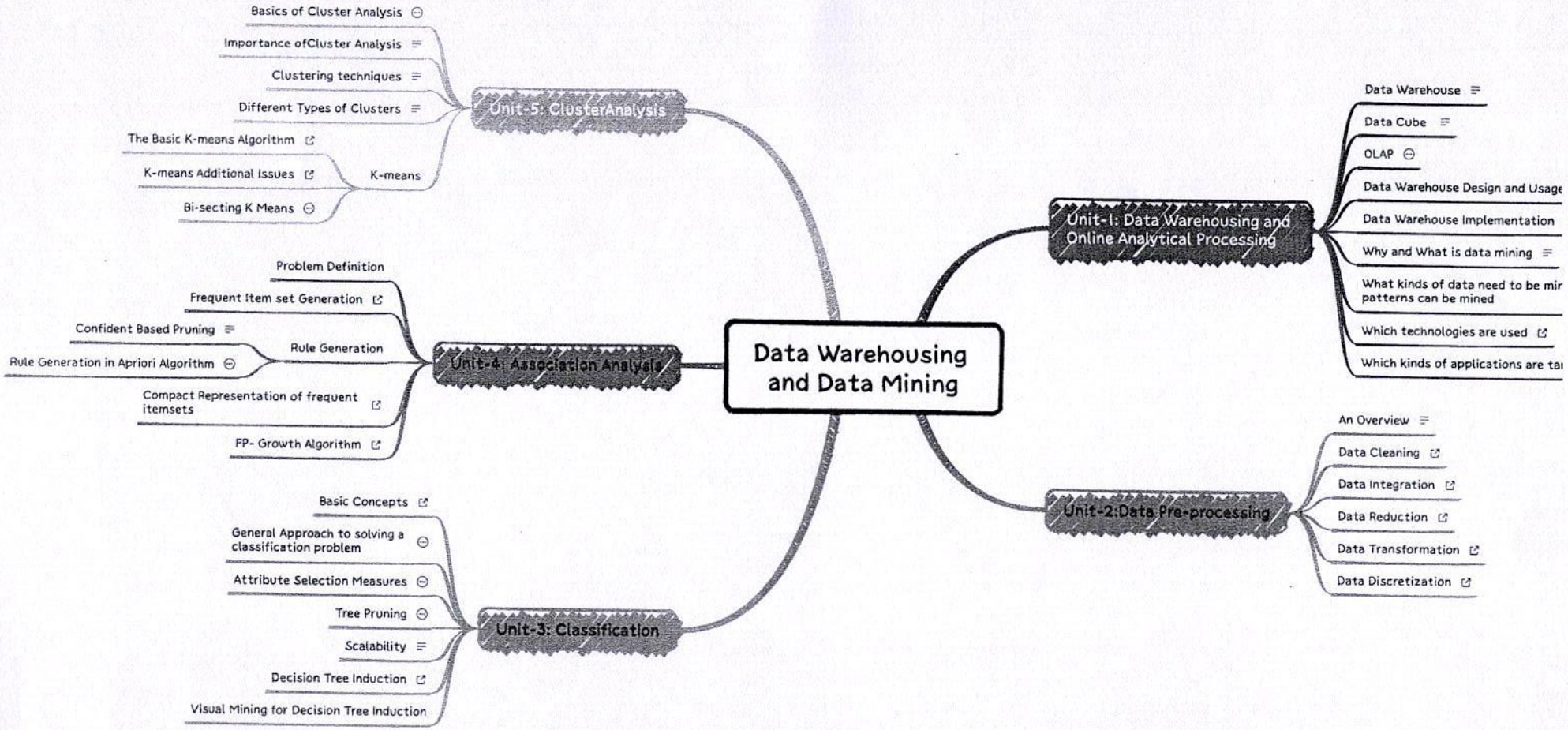

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SOFTWARE ENGINEERING

Unit 1-The Nature Of Software

- Software Process — Program Versus Software
- Process Assessment and Improvement
- The Unified Process
- Personal and Team Process Models
- Process Technology

Unit-2 Agile Process

- Agility
- Agile Process
- Other Agile Process Models
- A Tool Set for the Agile Proces
- Developing Use Cases — Usecase Diagram

Unit-4 Design in Context of SE

- Context of Software Engineering
- Design Process
- Design Model
- Software Architecture
- Designing Class-Based Compon
- Component-Level Design for W

Unit-3 UML Model

- UML Models
- Data Modeling Concepts
- Class-Based Modeling — Class based modeling Diagram
- Creating a Behavioral Model
- Patterns for Requirements Modelling
- Requirements Modeling for WebApps

Unit-5 User Interface Analysis and Design

- The Golden Rules
- User Interface Analysis and Design
- WebApp Interface Design
- A Strategic Approach to Software Testing
- Test Strategies for Conventional Software — Incremental integration Stra
- Software Testing Fundamentals
- Internal and External Views of Testing

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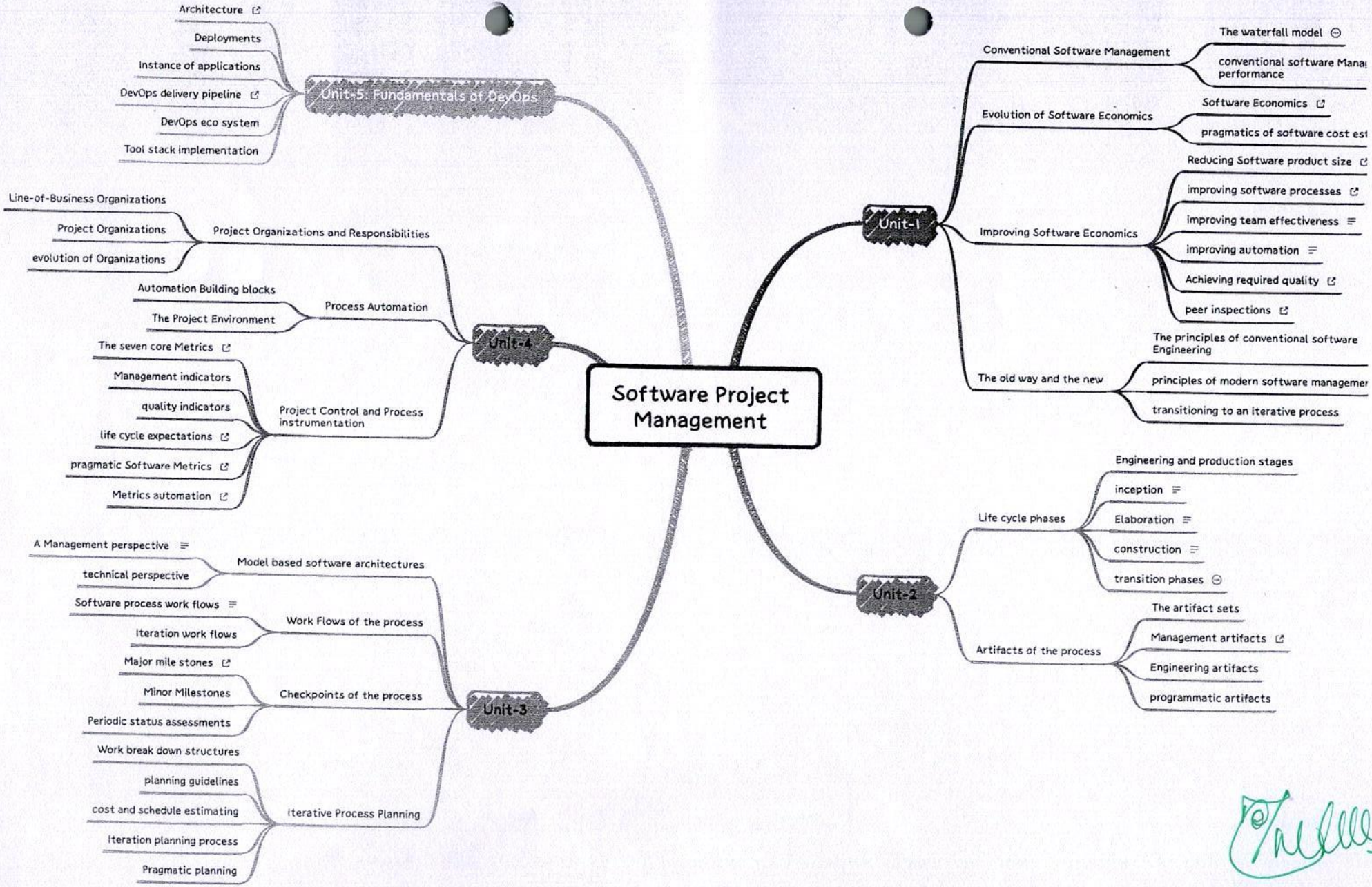

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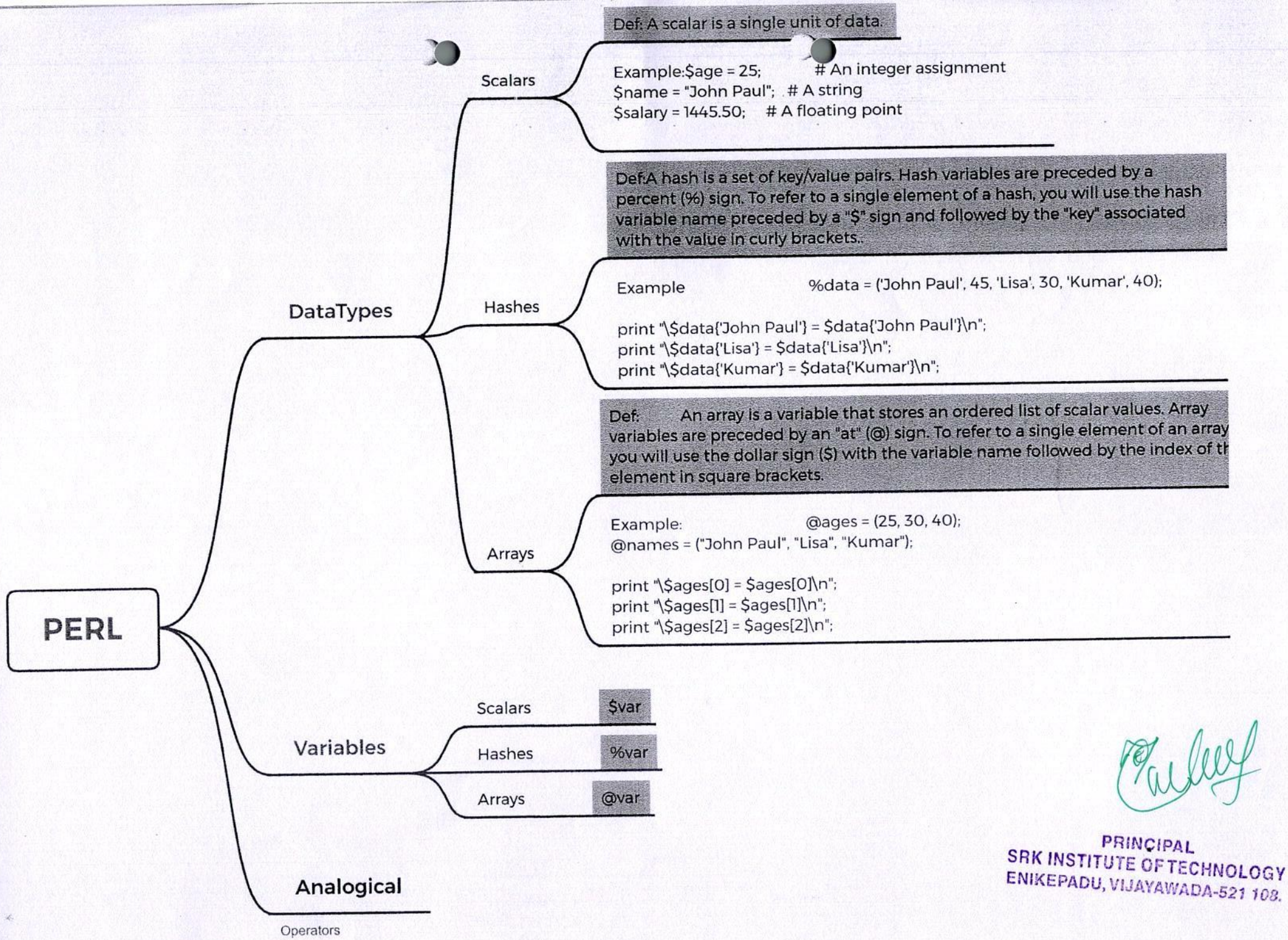

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XMIND

XMind is **a mind mapping and brainstorming software**, developed by XMind Ltd. In addition to the management elements, the software can be used to capture ideas, clarify thinking, manage complex information, and promote team collaboration.

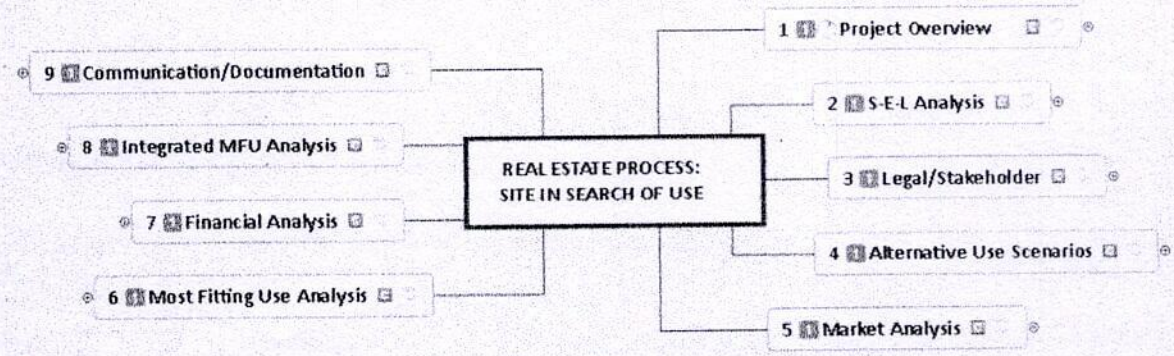
Introduction

The objective of this tutorial is to introduce real estate students and other readers to Mind Mapping, a technique that is useful in generating new ideas, developing processes, and project planning. Since the best way to learn the ins and outs of any tool is to apply it to specific cases, this tutorial applies XMind to real estate decision making. While this tutorial focuses on XMind, it should be noted that much of the functionality can be replicated in many of the other mind mapping packages that are available. XMind is built on an open source platform, allowing for customization and enhancements by developers and advanced users interested in customizing their mind mapping.

Mind Mapping

Mind mapping is the "art" of creating a visualization of some process or decision. It consists of a series of topics or steps that are linked together. Once a process has been mapped, it can be converted to template or model that can be modified and/or extended to other processes or decisions. However, rather than being a rigid, checklist type of modelling process, creating a mind map is a dynamic and interactive, allowing the designer and/or team to think freely and inclusively, not worrying about how things are connected as much as making sure the key components are identified. Once these building blocks or "steps" are noted at a general level, attention can turn to how they are connected as well as what they entail. Since mind mapping is learning, it takes on a continuous nature in which new knowledge can be integrated. So, sit back and start opening up your mind to a new way of thinking; a form of People Learning that can help

us compete with –and direct-- Machine Learning.



To provide students with examples of many of the features contained in this tutorial, several XMind maps created by the author and embedded herein are available. Other interested parties should contact the author at: **JRDeLisle**.

Installing XMind:

1. Download the free version of XMind deb file which includes 32 and 64 bit versions *(download links below).*

2. Once you have the deb file. Double click it to start the installation.

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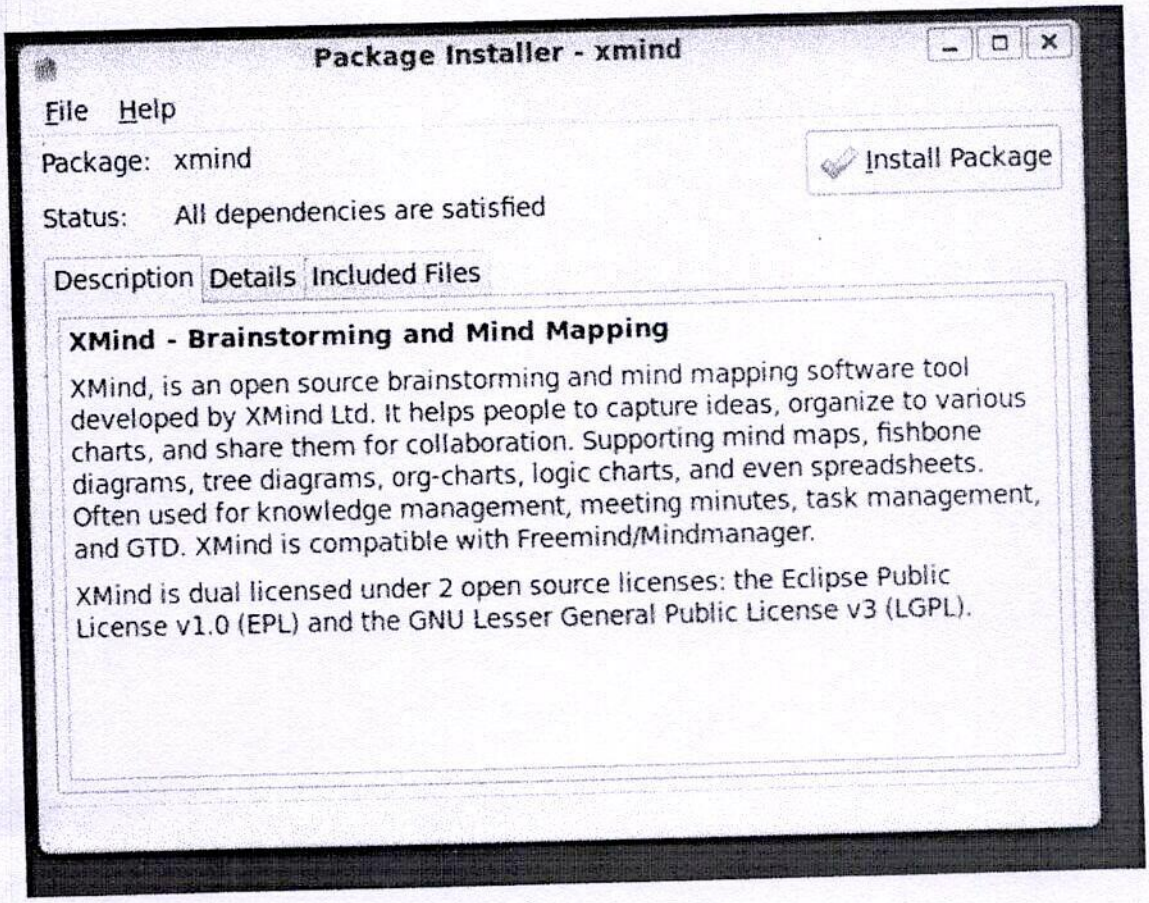

Once you click Install Package, you'll be prompted for the admin password in order to begin the installation.

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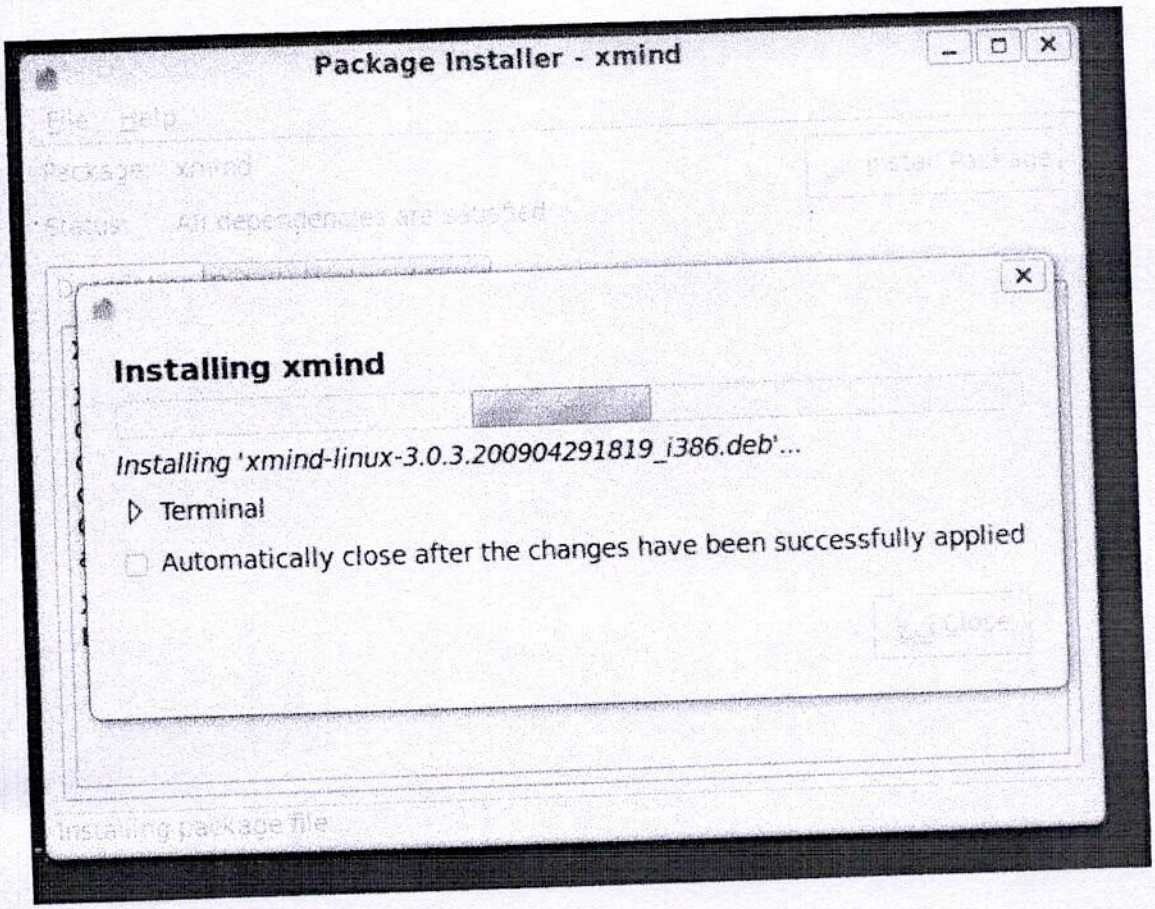

3. Once installed click close.

Before purchasing XMind (2020) subscription features.

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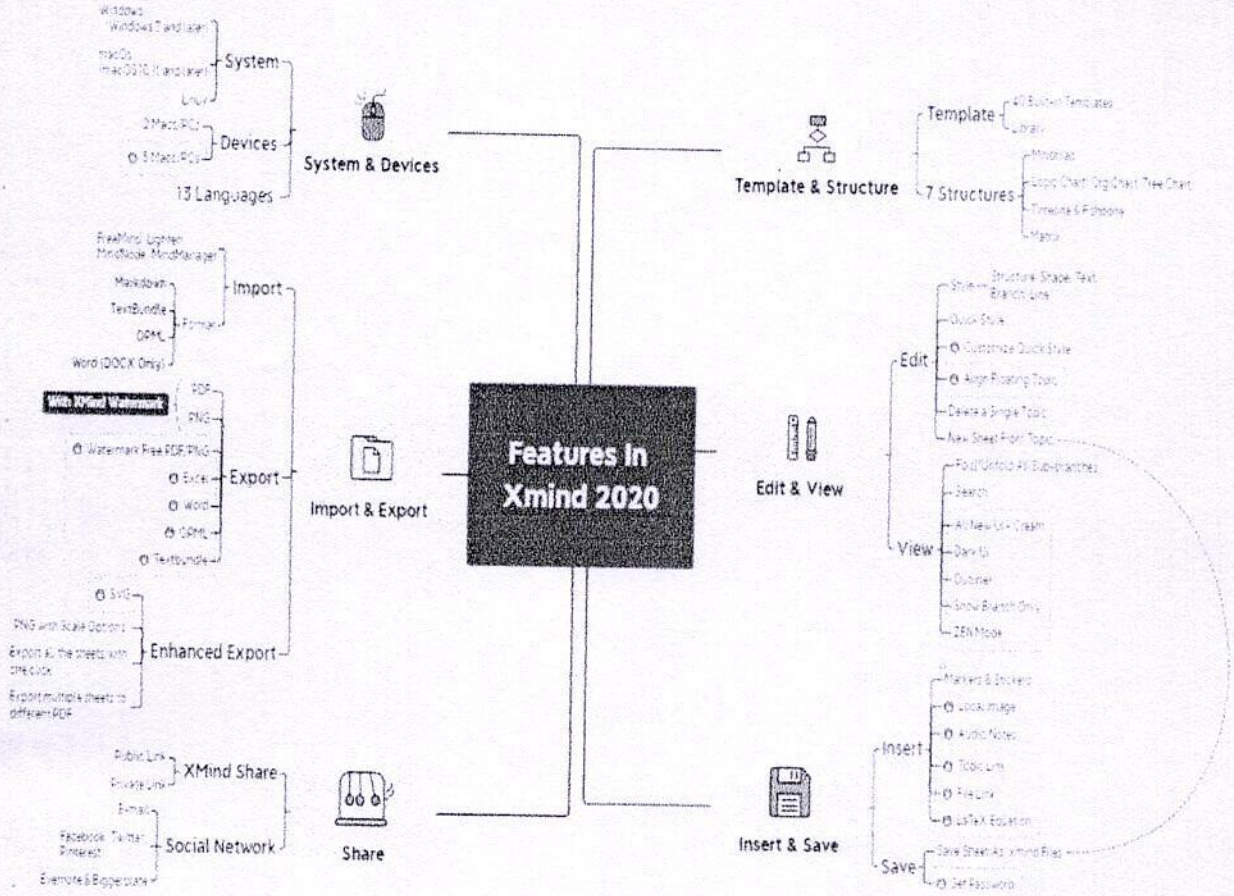

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Xmind 2020

	Full Version	Trial Version
Basic Function	Full version +	
Insert	Full version +	
Import		
Export	Full version +	

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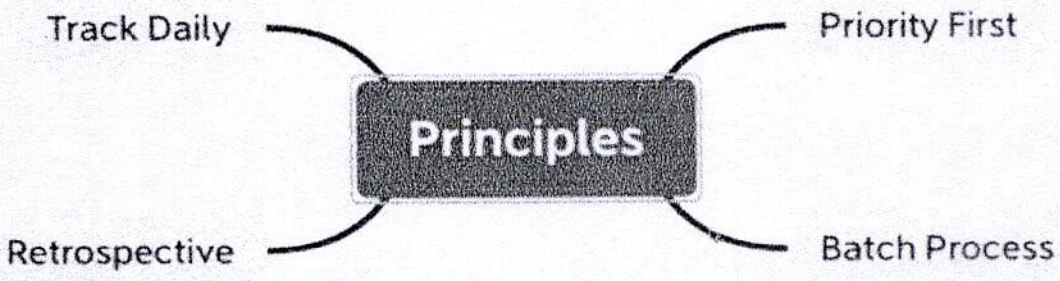
What is mind map presentation

A mind map is a tree chart that organize information visually. Mind map presentation is to use the mind map as presentation slideshows. Your presentation software = mind map software.

Here is what a real life mind map presentation can look like . (This is just one of the way topresent . In XMind, we provide various cool features for you to present.)



USE THIS FREE MIND MAP TEMPLATE

How can I customize your mind map templates?

1. Pick a mind map template from this blog post or XMind Share. **They are ALL free to use**.
2. Download the template you like. Then download XMind to use them. **No account registration required.** All the necessary features are free to use.
3. Open the XMind file. Double-click on any text box to edit the text (or select a box and tab SPACE to edit).
4. Use ENTER to add same-level boxes, TAB to add sub-level boxes.
5. Present directly in the software.
6. (Optional) Export to PNG or email mind maps for free.
7. More cool features below… Here's a sneak peek of what XMind editor looks like:

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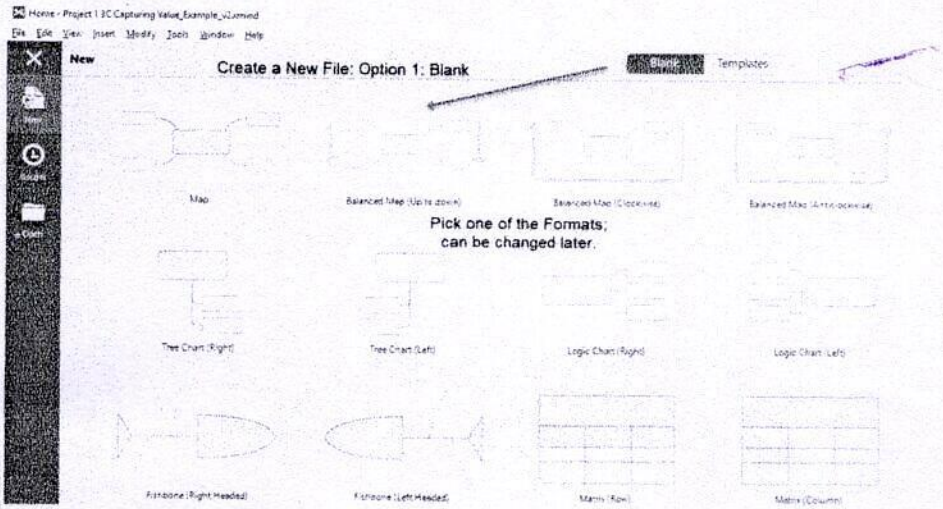
Using XMind

Create New Workbook

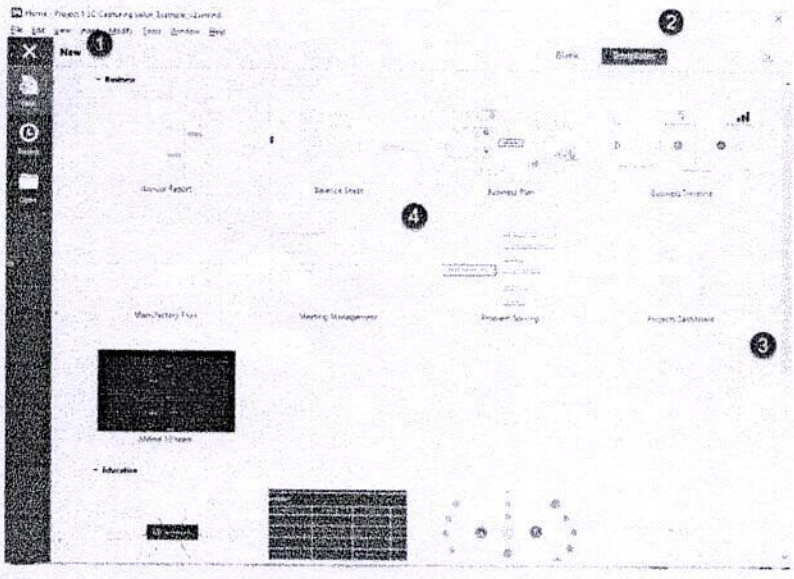
There are two alternatives for creating a new Workbook from scratch: selecting a Blank Structure; or, Selecting a Template.

Exhibit 5: Blank File Creation Options



Depending on your project, you might find a prepared template that you can use as is or that you can modify for your needs. This will fast-track the process and give you some ideas that you might adopt in your work.

Exhibit 6: File from Template



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XMind uses the term Workbooks to refer to separate Files. Once you launch XMind and choose Blank or Template, it will open a new workbook that shows up as a tab name "Untitled."

Exhibit 7: Workbooks

XMind Workbook Sheets

Basic Structure/Features

Depending on whether you selected a Blank form or a Template, you will see the same basic structure with several features. These include: 1) Ribbon options which toggle on for more detailed choices, 2) Common tasks as shortcuts, 3) a list of Open XMind Workbooks (you can cut and paste among files), 4) a Central Topic or your starting point, just click and relabel (if you selected a template there will be more topics), 5) a tab indicating Sheets in your Workbook at the bottom (you can add more; right-click to rename), 6) expansion/navigation options that open upon selection, and 7), advanced features available in the Pro version (e.g., Export to PDF, Brainstorming, Gantt Chart, Convert to presentation).

Getting Started

Given the intuitive nature of XMind, for many or you the best way to learn and draw from this tutorial may be to create a new blank XMind map and experiment with it as you explore the various features. To get started, once you have a Central Topic just mouse over it and you can replace the text

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by simply typing into the box. If you want to wrap text to keep the box small, use SHIFT-Return to start a new line. At this point, Click on the Central Topic box and enter the TAB key; this creates a subtopic. If you want multiple tabs coming from the Central Topic, just click on the box and enter TAB again. To create a hierarchy, Click on the Subtopic and TAB. You can repeat this process to lay out your basic structure.
Although you should give some thought to the layout and structure of your map, it is often more important to get your thoughts/topics on the screen. Once there, you can easily CLICK on a topic and drag it to a new location; that will alter the map and move the TOPIC and any SUBTOPICS to the same branch or location. The UNDO Icon in the favorites bar let's you roll back changes

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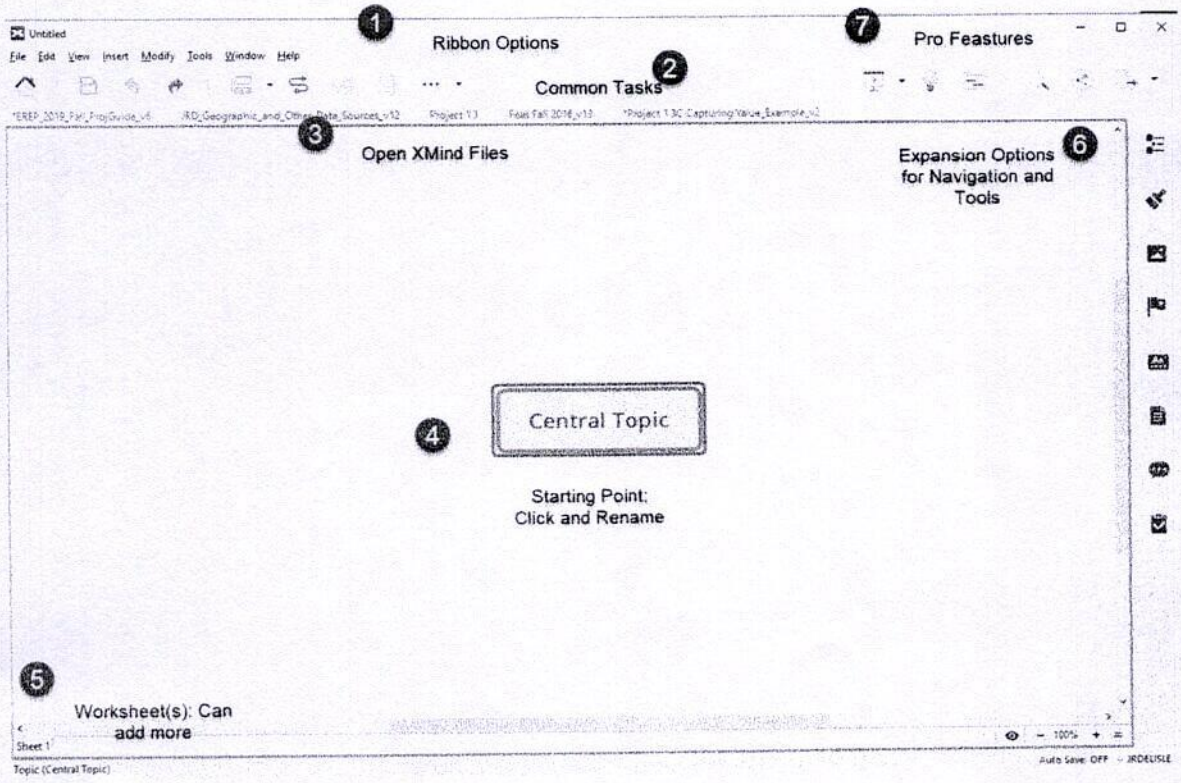
Exhibit 8: XMind Layout



Add Topics and Subtopics

Overview

There are three ways to populate your XMind; using the tab key to add to each topic/subtopic, adding in the Outline Feature, or using the Insert Tab and drop-down menu. There are four kinds of topics: Central Topic (the starting point), Main Topic (first level), Subtopic (multiple layers of topics), and Floating Topics (placed anywhere without linkages).

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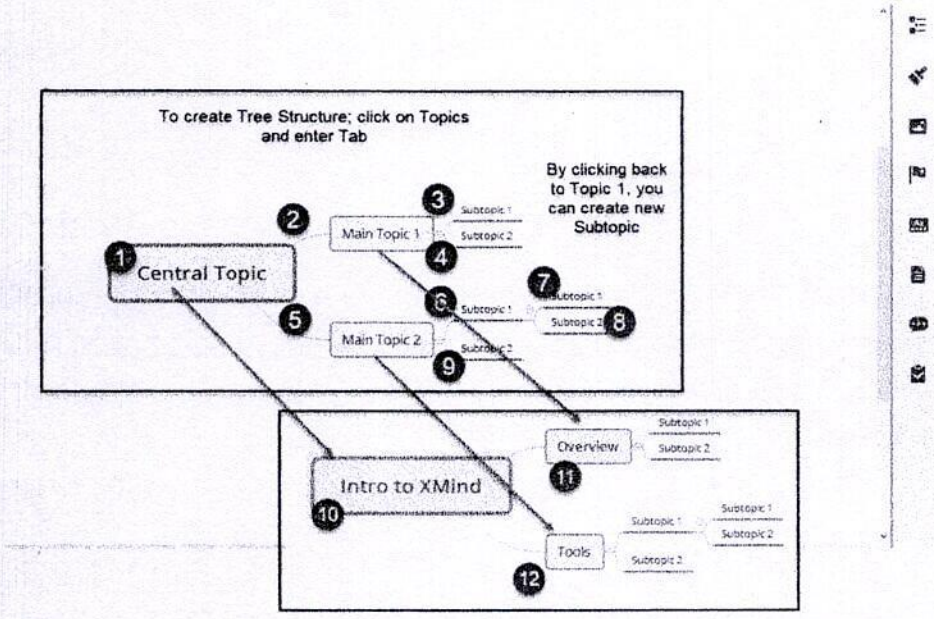
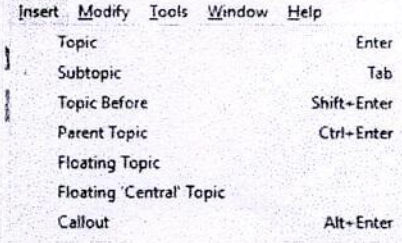
Exhibit 9: Create Topics by Tabs



Create Topics Via Insert Tab

You can also Create Topics by using the Insert Tab and selecting from the dropdown menu. In addition to pointing to the Insert Tab, you can use the shortcut ALT-I (note, this syntax is used for each of the Menu items). As noted, the topics can be placed anywhere depending on which Topic you highlighted and which option you select.

Exhibit 10: Insert Topics



Once you have created topics, you can rename them by clicking on the Topic and typing in the desired label. If you want to wrap text to 2 lines, use CTRL-ENTER.

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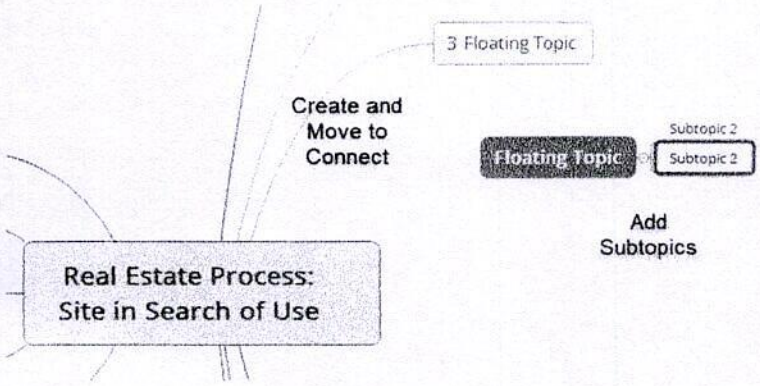
Floating Topics

Floating Topics can be added via the Insert Menu or by quickly double-clicking oh the open Map. This is useful for brainstorming and getting Topics on the Map which can later be placed where they belong and populated with more detail. Floating topics can be renamed, and can have Subtopics enhancements.

Exhibit 11: Floating Topics to Brainstorm



Change Order or Layout of Topics on a Map

To move topics, simply drag and drop once a connection is automatically established. Sub Topics can also be inserted to change the order and/or add more features to the map. Connections can be deleted which creates a form of Floating Topic

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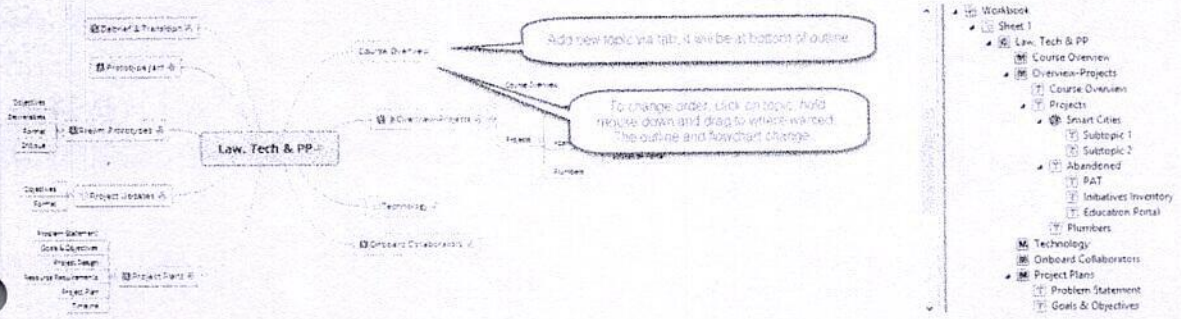
Exhibit 12: Changing Map Layout/Topics



Expanding/Collapsing Topics

For each Topic/Subtopic you create, XMind will add a placeholder until you rename it. To the right of each Topic with Subtopics, a small + Icon appears. You can toggle that on and off by clicking on it. In Expand mode the Subtopics will be shown; in the Contract mode (-) the Subtopics will be hidden.

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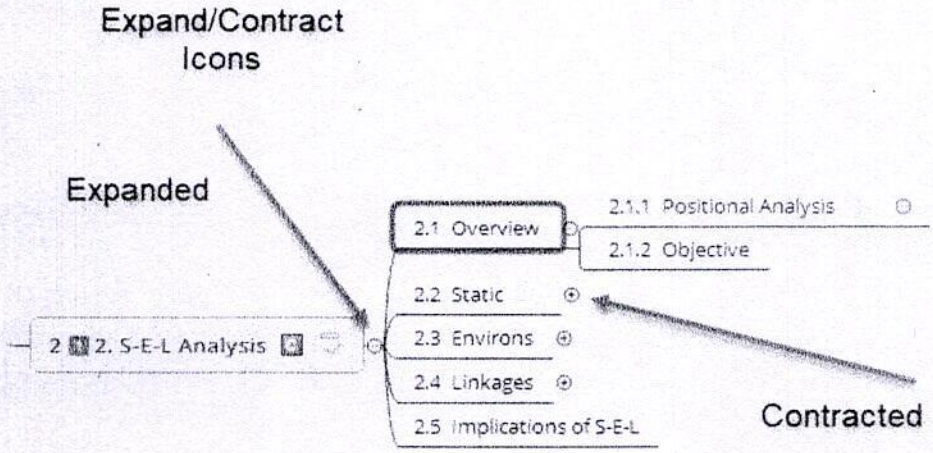
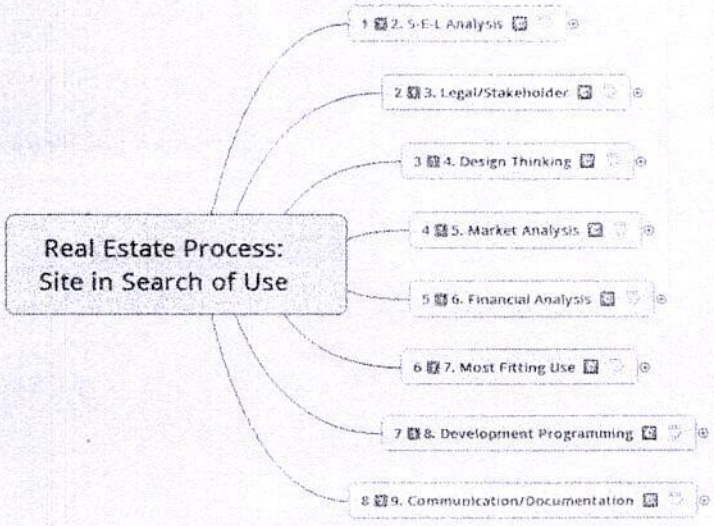
Exhibit 13: Expand/Contract Icons



Mind Map Structure

In some cases, changes to the order of topics may change the basic format/structure of your map. To apply a different Structure or Layout, RIGHT-CLICK on the topic of interest



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Changing Structure

To Change the Structure of a Map, go to the MAIN Topic and RIGHT-CLICK. At this point you will see “Structure” as a menu option.

Exhibit 14: Select Structure for Changes to Selection

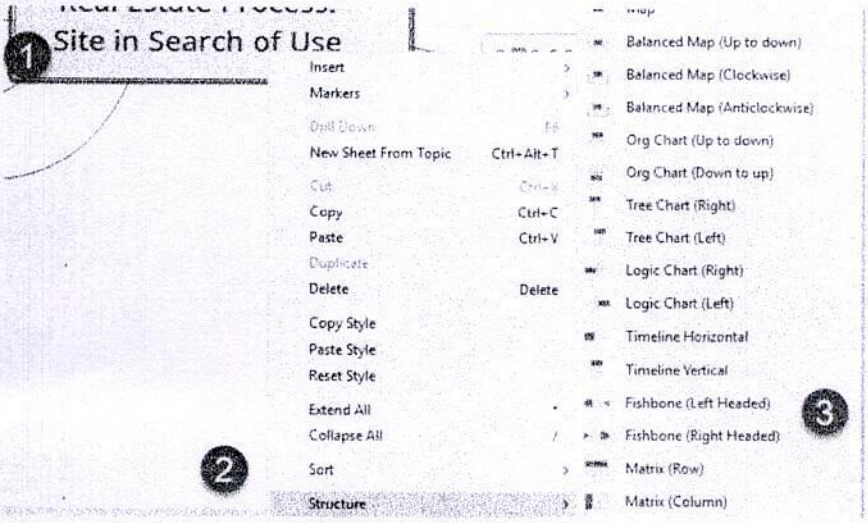
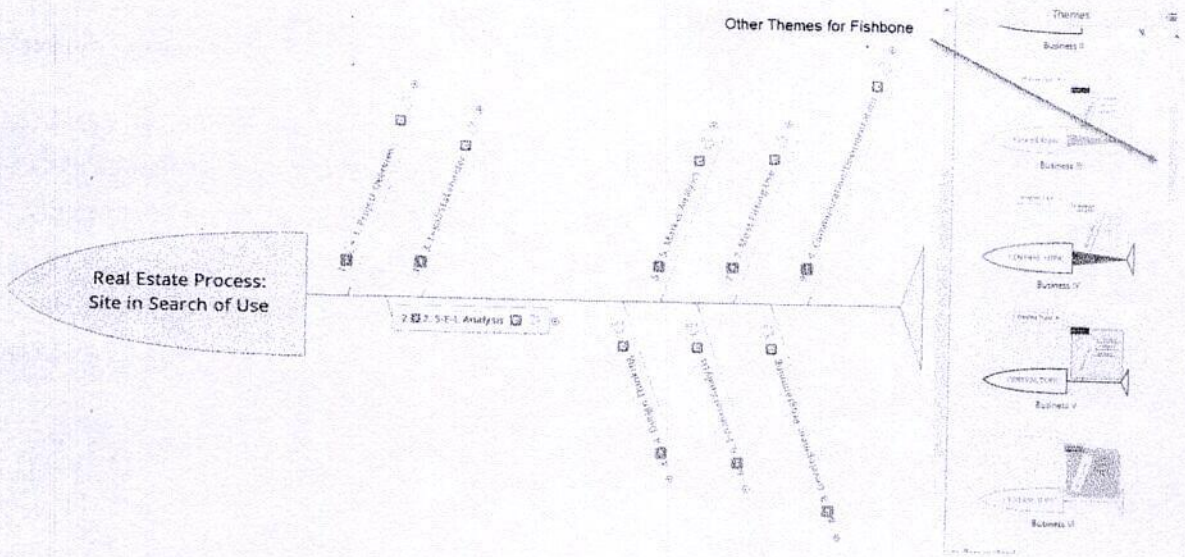


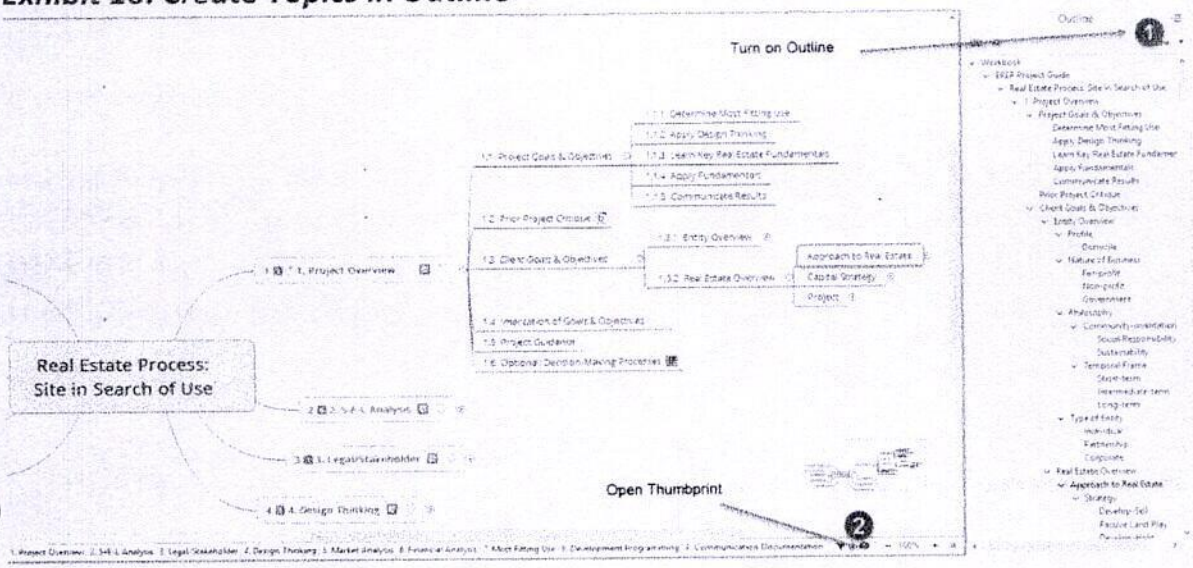
Exhibit 15: Fishbone Structure & Optional Themes



Outline View and Thumbprint

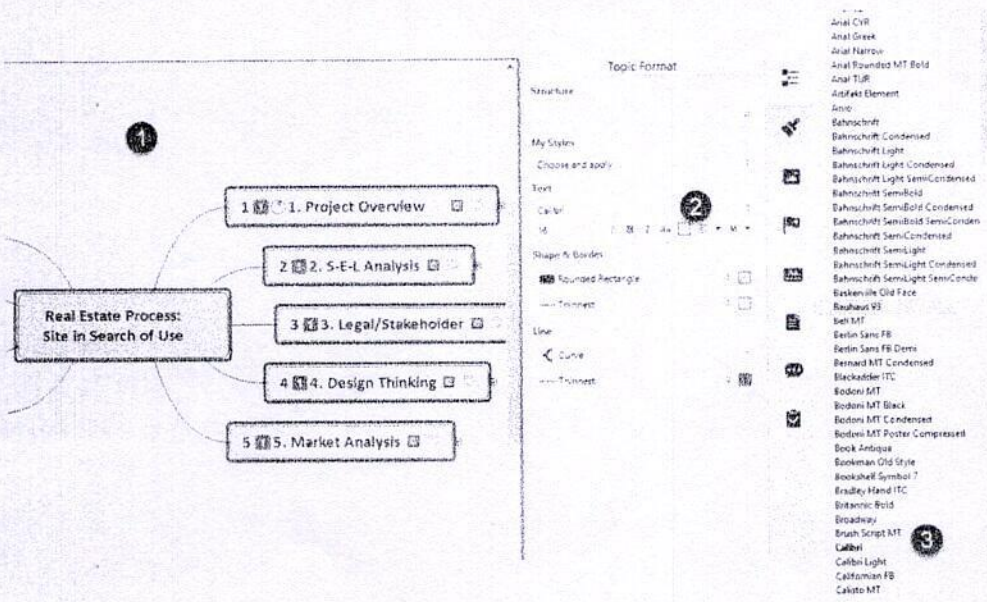
To View Outline Panel, click on icon to upper right. You can change labels and/or add topics from either the map or the Outline Panel. The TAB addition will work in either and the results will show up in the other frame. Another useful feature for larger mind maps is the Thumbnail preview screen activated by clicking on the EYE-icon. If you scroll around in the preview, the larger Mind Map moves around s as well.

Exhibit 16: Create Topics in Outline



Changing Formats

There are a number of ways of accessing the Format options, including RIGHT-CLICK on a topic or selected group of topics. Again, you do not have to completely enfold the topics of interest, but just overlap part of each one to include it in the changes.



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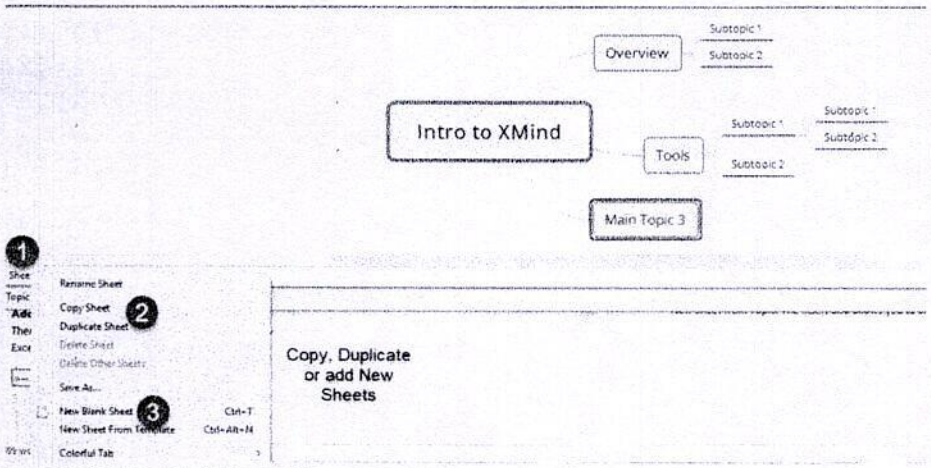
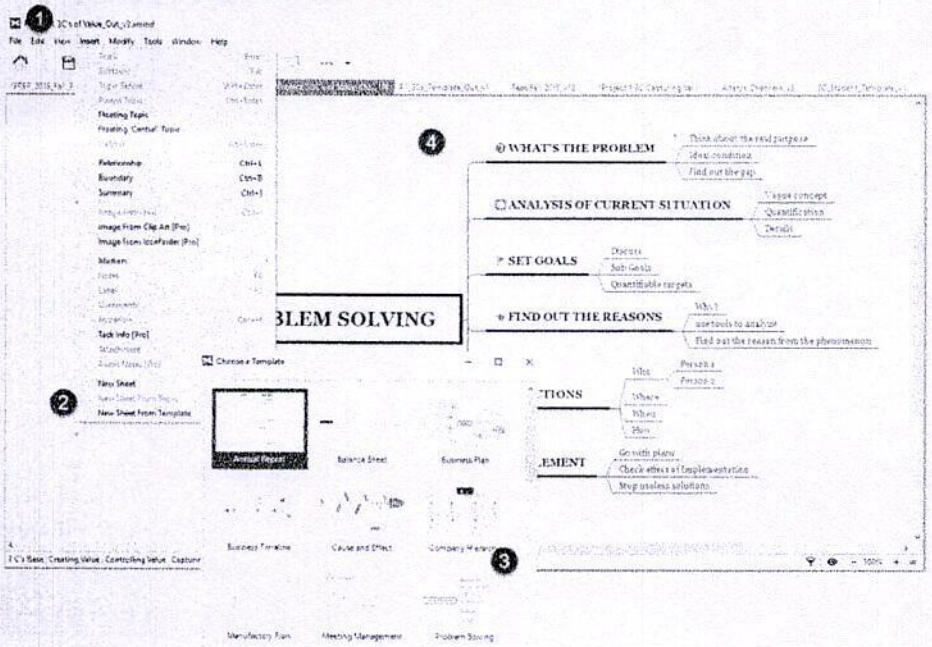


Exhibit 32: Adding Sheets

Exhibit 33: Inserting Sheets via Menu



You can also Insert New Sheet from the menu. This allows you to select from prepared templates for various types of activities, in this case, a problem-solving model.

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Make Sheet from Topic

Once you have a basic structure, you can make separate worksheets for each element. This can be helpful if your model has a lot of detail and/or components which could be unwieldy if constrained to one sheet. To add a new sheet, right-click on the topic you want made into a sheet, and select Insert

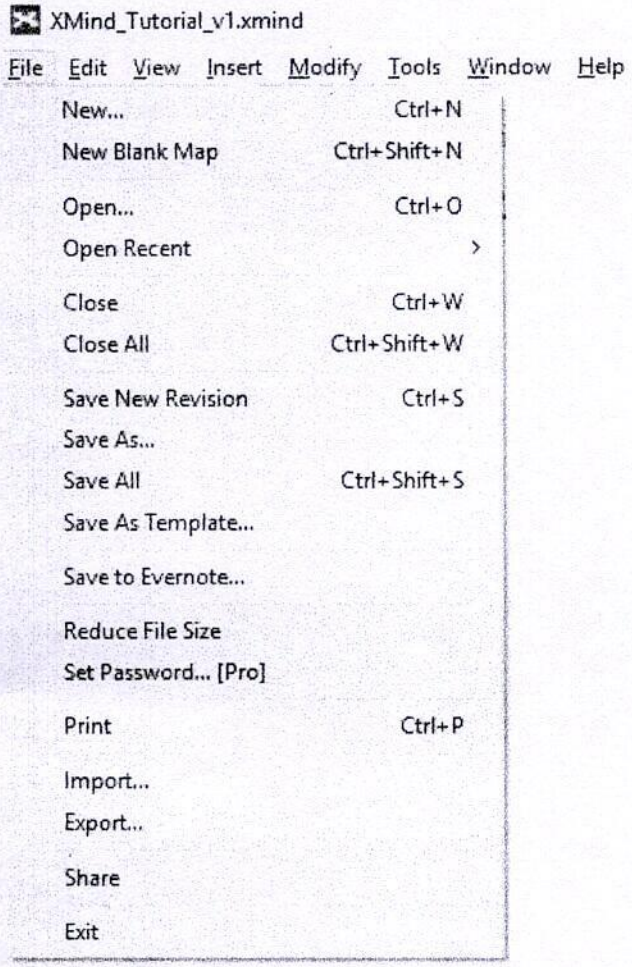
New Sheet from Topic. The Insert also allows you to create a new sheet with the same name as the topic and Link to it from the Main menu. Alternatively, select topic and right click to see Insert Sheet. This will pull the Topic and its Subtopics. Note that editing at the Sheet Level will not show up at the Main Level so you should think about how detailed you go for each Sheet.

There is a work-around that you can use to update the Main Source sheet if you want to include more details from the individual sheets. Before making these changes, save your file so you can roll back in case some issues arise. To pull information from a Detailed Sheet to the Main Sheet, Copy the Contents on the detailed sheet and then go to the Main Sheet and delete the old content. At this point, simply Paste the content in your clipboard. You may have to re-arrange the map depending on how large the clip was and how the map is laid out. At this point you can delete the Sheet from which you drew the information. Remove the Linkage Icon from the Main Sheet and then simply "Create New Sheet from Topic." Rename it and move it to where you want the sheet.

And company to introduce more advanced features. That said, it is useful to review each of the menu tabs to point up some basic functions you will need to successfully mind map. The Menu Folders at the top of the map screen can be accessed by clicking on them, or by using the shortcuts (e.g., ALT-F for File, ALT-E for Edit; some operating systems will use CTRL instead of ALT). Once opened, the tabs are organized hierarchically, indicating additional shortcuts and in some cases, pointing to an expansion menu for more detailed functions.

File Menu

Exhibit 17: File Menu



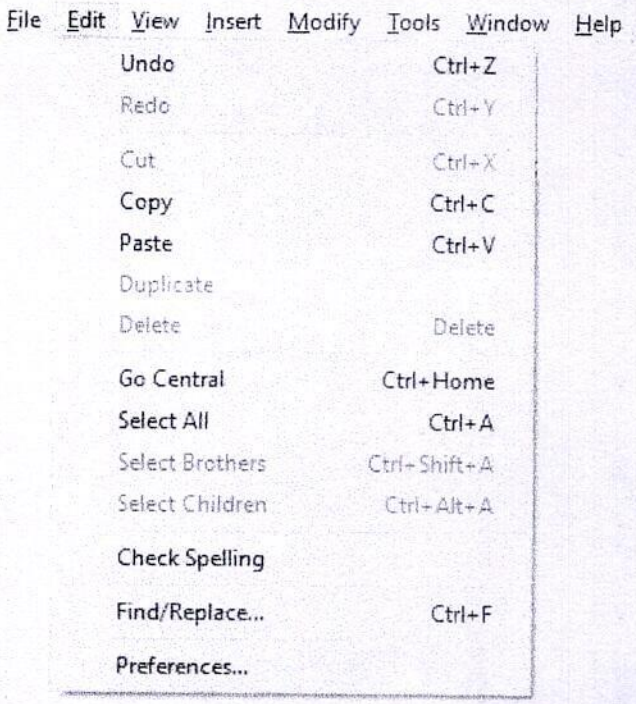
The File Menu is fairly familiar, containing the basic New, Open Recent, and Close functions. The Save functions provide some additional options including Versioning in which XMind keeps a copy and log of your files without requiring any naming convention. However, if you are collaborating with others and/or making continuous changes, I recommend adopting some version number (e.g., Project1_v1) to make sure you and your colleagues are both looking at the same file.

If you have the Pro version, there are some additional feature related to Password Protection, Import and Export. Sharing gives you a number of options for providing others access to your maps, either in public or private forums.

Edit

Overview

The Edit Menu allows you to perform some common tasks. Whether the individual items are available depends on whether you are on a TOPIC when you select the Edit Menu or elsewhere on the map. In general, the shortcuts are the same as most operating systems, including Undo, Cut, Copy, Paste.



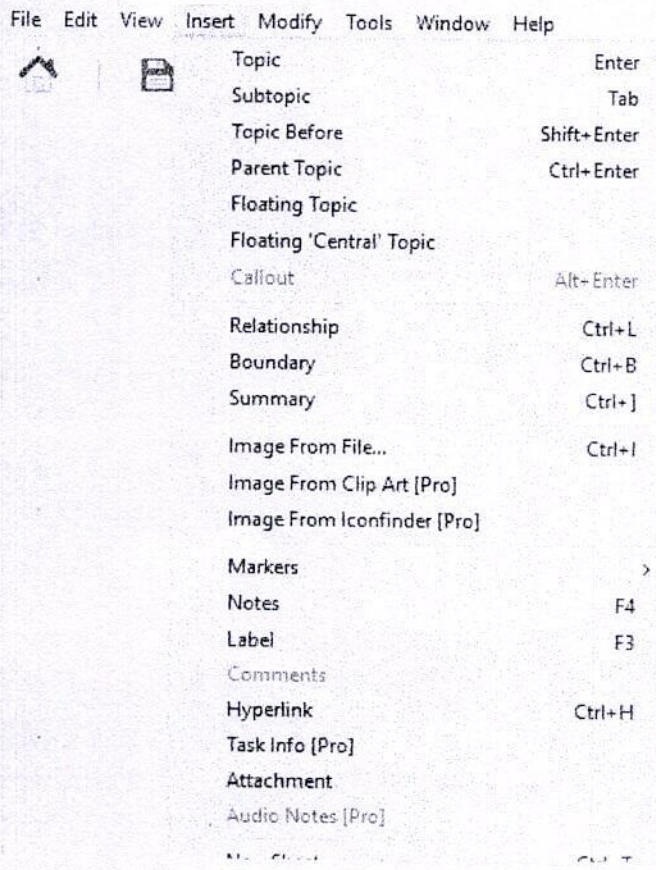


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Exhibit 18: File Menu

Insert Menu

The Insert Menu has a number of features that can be used in building out your mind maps. Depending on whether you are on a Topic or the general map canvas, different options will be bold and active vs. greyed out.

Insert Menu Options

Relationships

The Relationship task allows you to visually point out how some elements feed into others. This is more of visualization than a project plan since project planning is a separate component of the Pro version of XMind.

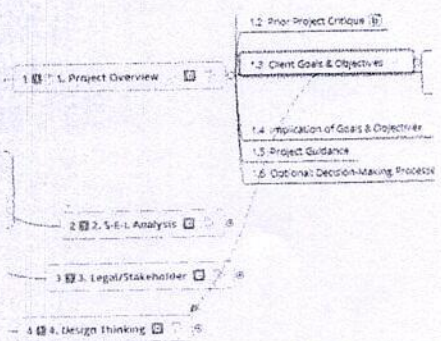
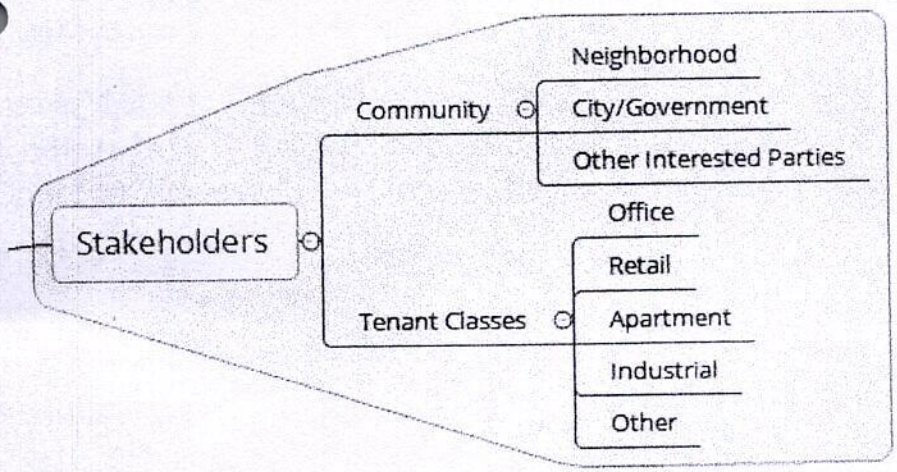


Exhibit 20: Showing Relationships

Boundary

In addition to Callouts, you can visually highlight an area or set of topics by Inserting a Boundary. You do not have to completely enfold the topics to select; just touch them while clicking the Left-Mouse button

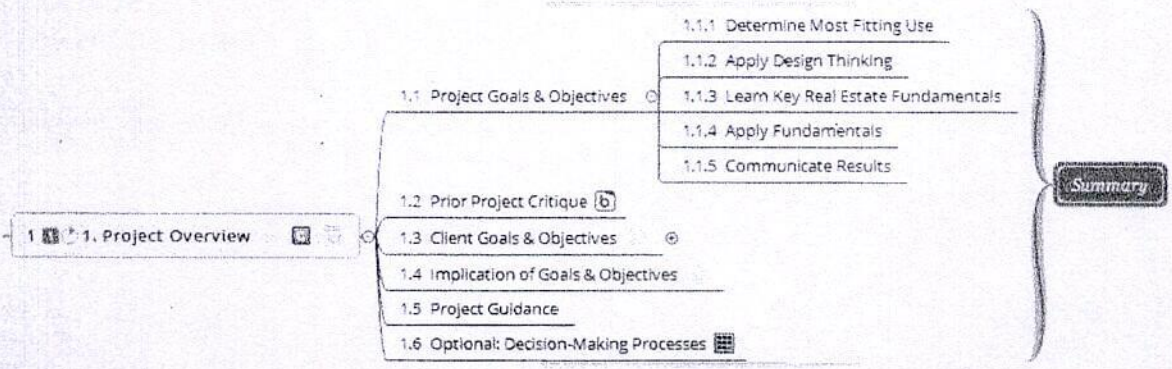
Exhibit 21: Boundary Highlight



Summary

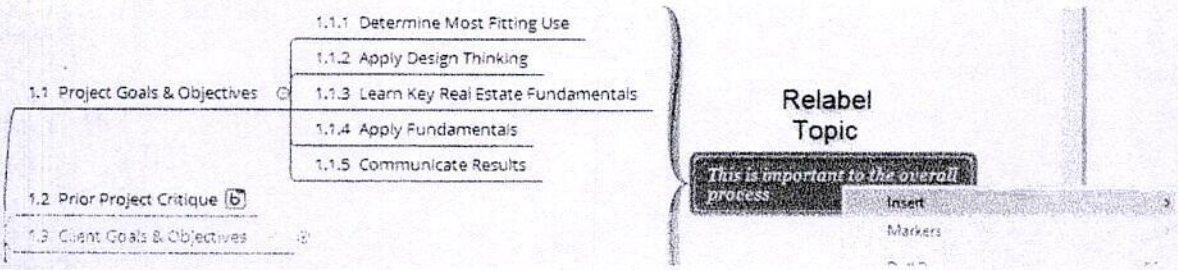
In addition to Boundaries and Callouts, you can Insert Summary to indicate how certain Topics/Subtopics feed into some conclusion. This is accomplished similar to boundaries by highlighting the Topics/Subtopics and then Insert Boundary.

Exhibit 22: Creating a Summary



Once you have created a Summary button, you can edit it and add features to populate it with information and/or links.

Exhibit 23: Adding to a Summary



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PPT

POWER POINT PRESENTATIONS:

PowerPoint presentations are maintained to serve as organized repositories of teaching materials, facilitating curriculum organization, reference for instructors, and consistency across classes, especially in courses with multiple educators. These files act as resources for substitute instructors, archives for past semesters, and references for students. By including presentations, instructors can ensure quality assurance, compliance documentation, and ongoing improvement by reviewing and adapting materials based on feedback and advancements in the field. Overall, course files with PowerPoint presentations streamline the teaching process, support collaboration, and provide a comprehensive resource for effective course management and delivery.

S.No	Topics	Course Name
1.	Overview on Data Mining	Data Mining Techniques
2.	Deployment Methods of Cloud computing	Cloud Computing
3.	Introduction to Operating system	Operating System
4.	Introduction to Computer Networks	Computer Networks
5.	Introduction to Design Patterns	Design Patterns
6.	Smart Home Technologies	Database Management System
7.	Proposal for the theme on Big Data Analytics	Big Data Analytics
8.	Seminar Topic On Block Cipher Security & AES	Cryptography and Network Security

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CLOUD COMPUTING IN AGRICLUTURE FIELD

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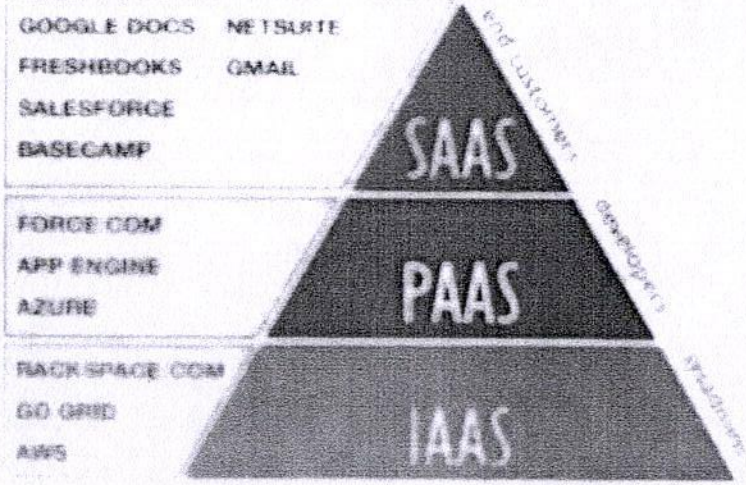
CLOUD COMPUTING

- Cloud computing is an information technology paradigm through which users can access shared pools of configurable system resources over the internet. Such a sharing of resources enables coherence and economies of scale, which functions like a public utility, which can be quickly allotted by service providers to users with very little managerial effort.
- When an organization outsources their computer infrastructure and handling to the cloud, it allows the company to focus on their core business, instead of having to invest in computer infrastructure.
- And because cloud computing enterprises have expertise in their sector, they can work faster and are better managed. They are also far more adaptable to meet fluctuating and unpredictable demand.

- Cloud computing service providers typically work on a pay-as-you-go model. Apart from that, the user can also opt for options like software as a service (SAAS), Platform as a service (PAAS) Infrastructure as a service (IAAS). IAAS is one of the most commonly used services, as it helps organizations do away with infrastructure costs.
- The word "cloud" became the metaphor for the Internet, and the standardized cloud-like shape was used to denote a network of telephony schematics. Thus, cloud computing is one more application within the basket of Information Communication Technologies (ICT).

Models of Cloud Computing

1. ***Software as a Service** (SAAS):*
2. ***Platform as a Service** (PAAS):*
3. ***Infrastructure as a Service** (IAAS):*



Cloud end-users: Farmers, Policy makers, Experts, Researchers etc

SaaS: Browsers, SMSs, Audio-video, e training etc

PaaS: e-data bank and Cloud Agro System

IaaS: Computers, laptops, mobile phones etc.

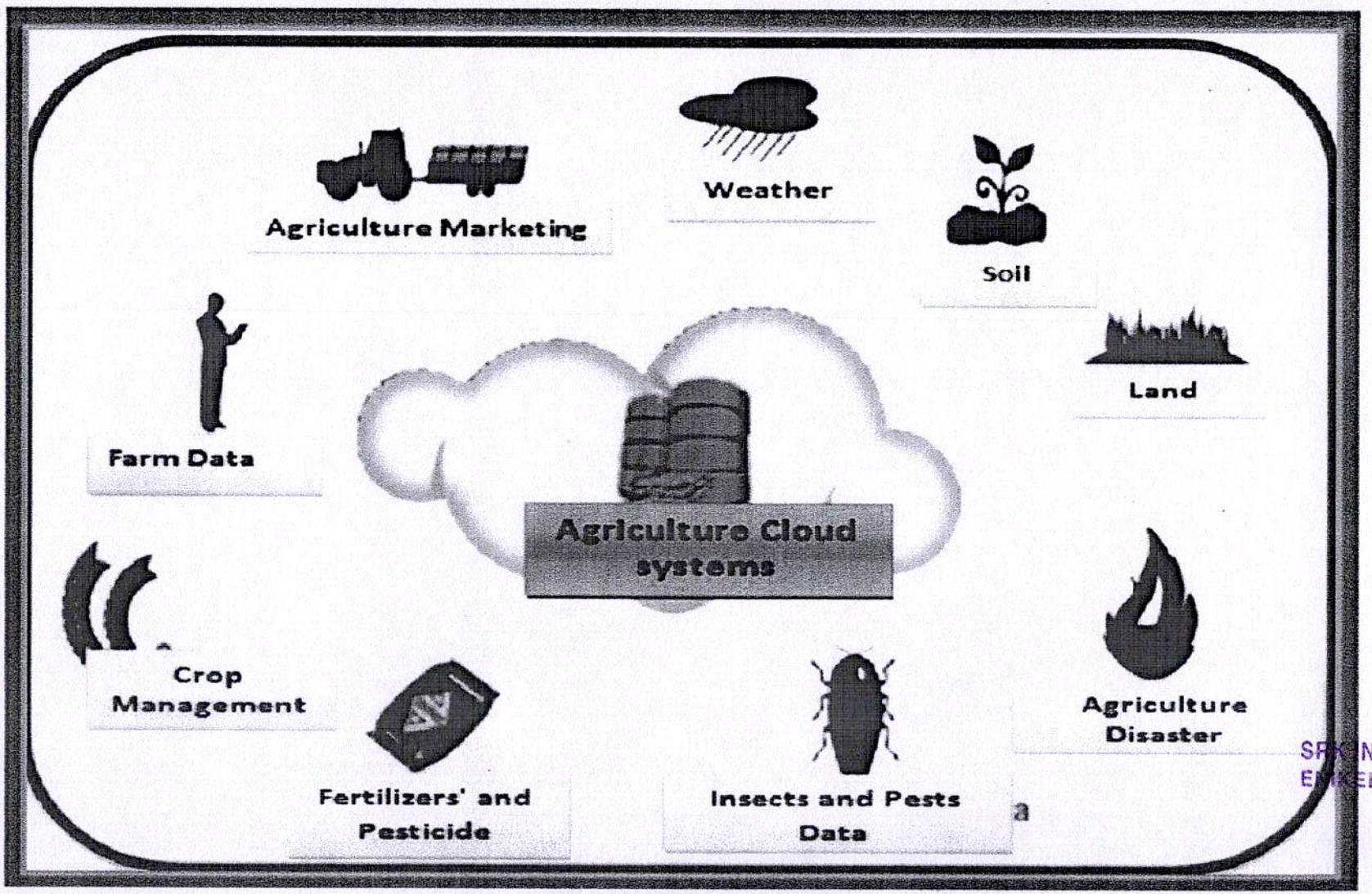
OBJECTIVE

- The objective of the paper is concerned with the concept of how Cloud Computing can be implemented effectively, and how can it be prominent in developing Indian Agricultural sectors and in other developing countries. It is concerned with how ICT (Information and Communication Technology) will be helpful in the agricultural sector and hence the economic development of the country.

AGRICULTURE AND CLOUD COMPUTING TECHNOLOGY

- India is one of the largest producers of foods, grains and other products, but still agriculture and its production process are decentralized, crude and obsolete methods being followed by the farmers, together with several constraints of the farmers and modernization is very slow.
- This results in an obvious gap between the supply and demand chains of the agricultural products. This will have a negative impact on the farmer's economic conditions as well the national income of the country.
- This bottleneck can be eliminated with the implementation of Cloud in agricultural field. It can break the farmer's limitations in technical knowledge, improve the utilization of existing resources and can also overcome the strong dependence on natural climate in the specific geographical areas.
- By conveying important information related to agriculture through Cloud and other devices through Internet, the farmers can benefit hugely.

AGRICULTURE CLOUD SYSTEM



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ROLE OF CLOUD COMPUTING TECHNOLOGY IN AGRICULTURE FIELDS

- Use of Cloud computing technology in agricultural areas has greater chance in the overall development of India. An effective implementation of cloud computing is encouraging in agricultural sector.
- Cloud Computing is emerging today as a commercial infrastructure that eliminates the need for maintaining expensive computing hardware, software, Information technology, staff, infrastructure, recourses and their maintenance.
- Cloud computing is a network-based environment that focuses on sharing computations, Cloud computing networks access to a shared pool of configurable networks, servers, storage, service, applications & other important computing resources.
- In modern era of cloud computing technology very helpful for centralized the all-agricultural related data bank (Soil-related, weather, Research, Crop, Farmers, Agriculture marketing, fertilizers and pesticide information) in the cloud.

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- Agriculture information data bank (crop, weather, soil, growth progress, farmer data & expert consultation).
- Store all the agriculture related information in a centralized cloud, which will be available to all the users at anytime, anywhere.
- Management of all data related to land, location, area; soil and land characteristics through centralized decision support systems
- High integration & sharing of agricultural information
- It can be eliminate the farmer's limitations of technical knowledge & resources
- Providing agricultural technology service & science
- Improvement of the agricultural products marketing
- Efficient use of agricultural resources
- Promote the circulation of agricultural product and service in wider level.

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CHALLENGE OF CLOUD COMPUTING IN AGRICULTURE

- Maintenance & Supervision by third party, So data security is less
- Indirect administrator accountability
- Farmer is unknown for cloud computing technology
- Less physical control
- Attraction to hackers
- Need on the network connectivity
- Requires a constant Internet connection
- Platform facility is not easily available for farmers
- Farmers training necessary for this technology
- Does not work well with low-speed connections
- it runs the risk of security

BENEFITS OF CLOUD COMPUTING IN AGRICULTURE

- Data Readiness any time & any where
- Local and global communication
- Improve economic condition of the Nation
- Enhanced the GDP of the nation
- Ensure food security level
- Motivation of farmers and researchers
- Reduction of technical issue
- Rural-Urban movement
- Data availability at any time and at any location without delay
- Improve market price of Food, seeds, other product

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APPLICATIONS

- Crop-related information
- Soil Information
- Monitoring Growth
- Farmers' Data
- Expert Consultation
- E-commerce
- Practical Information Sharing

CONCLUSION

- This prominent technique may deliver the agriculture-based knowledge along with management of natural resources and knowledge directly to the consumers not only in a small region like in nonstop marketing or shops but also in a wider region.
- This will change the whole supply chain, which is mainly in the hand of large companies, now, but can change to a more direct, shorter chain between producers and consumers.
- Cloud computing technology, applicable for the improvement of agriculture growth, food, grain, product, economic condition, Ensure food safety, GDP of the nation & circulate information related to agriculture etc.