

EXCELSSIOR EDUCATION SOCIETY'S
K.C. College of Engineering & Management Studies & Research
MithBunder Road, Kopri, Thane (E)
Department of Information Technology
INNOVATION IN TEACHING LEARNING
(Year 2022-23)

Class :BE(IT)

Semester : VII

Subject: AR-VR

Activity: Think Pair Share

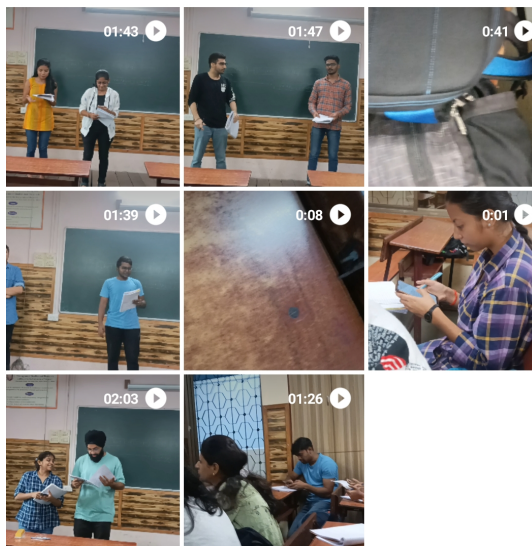
Activity Report: Following topics were given to the students for TPS activity

1. Mixed reality daily life examples narration.
2. What should be components of Mixed reality?

Open ended discussions were allowed for the students to come up with their ideas and were discussed in pairs

After 20 minutes each group was asked to present their learnings in front of class.

Proof:



Prepared by,
Dr.Kiran Bhandari

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INNOVATION IN TEACHING LEARNING
(Year 2022-23)

Class : BE (IT)

Semester : VII

Subject: Major Project -I

Activity: Role Play Activity

Activity Report: BE IT students assigned with role play activity for major project-I

Role play exercises give students the opportunity to assume the role of a person or act out a given situation. These roles can be performed by individual students, in pairs, or in groups which can play out a more complex scenario. Role plays engage students in real-life situations or scenarios that can be “stressful, unfamiliar, complex, or controversial” which requires them to examine personal feelings toward others and their circumstances.

Role playing exercises encourage students to think more critically about complex and controversial subjects and to see situations from a different perspective. When properly employed, role plays can motivate students in a fun and engaging way.

Objective-Role plays provide students with the opportunity to take part in activities which helps students to understand the use of their Project in relevance to real-world situations.

Proof :



**Prepared by,
Project Co-ordinator**

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Class : TE(IT)

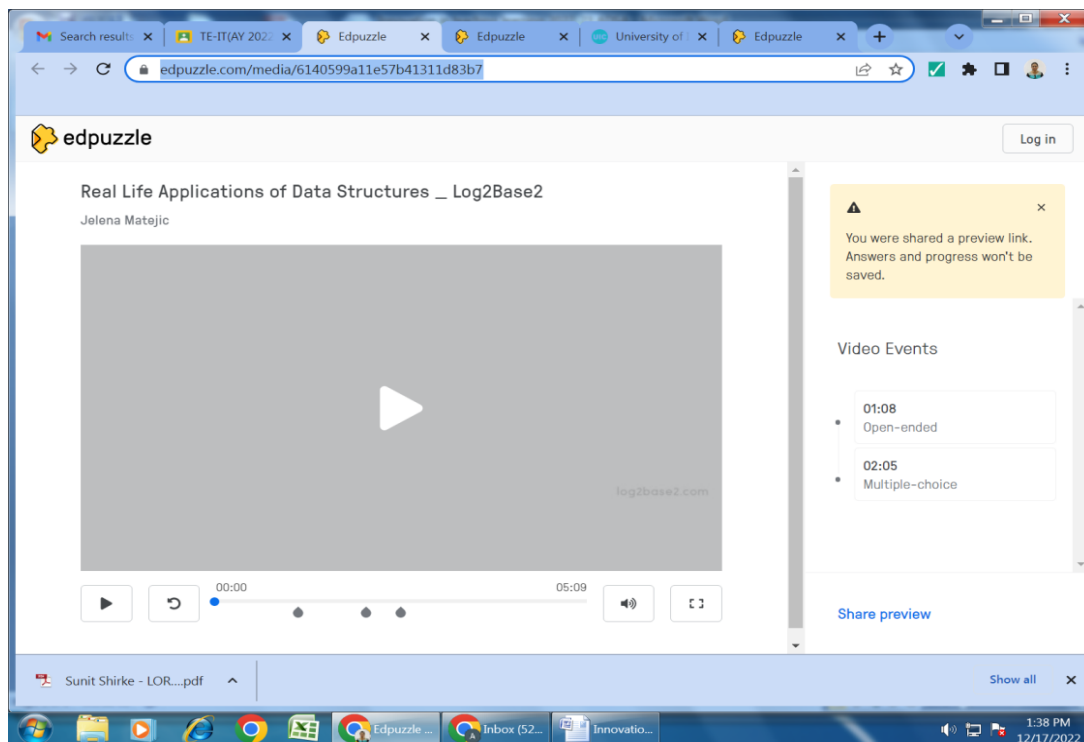
Semester : V

Subject: Advanced Data Structure and Analysis

Activity: Assignment and Ed Puzzle

Activity Report: Students of TE are given assignment on Advanced data structure questions based on applications of Advanced data structure in Artificial Intelligence and Machine Learning domain. Also Ed Puzzle video quiz is given on applications of Advanced Data Structure.

Proof: <https://edpuzzle.com/media/6140599a11e57b41311d83b7>



Prepared by,
A.P.Amarja Adgaonkar

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INNOVATION IN TEACHING LEARNING
(Year 2022-23)

Class :SE(IT)

Semester : III

Subject: DSA

Activity: Practise of solving previous university QP,
Virtual Lab practicals programming practice.

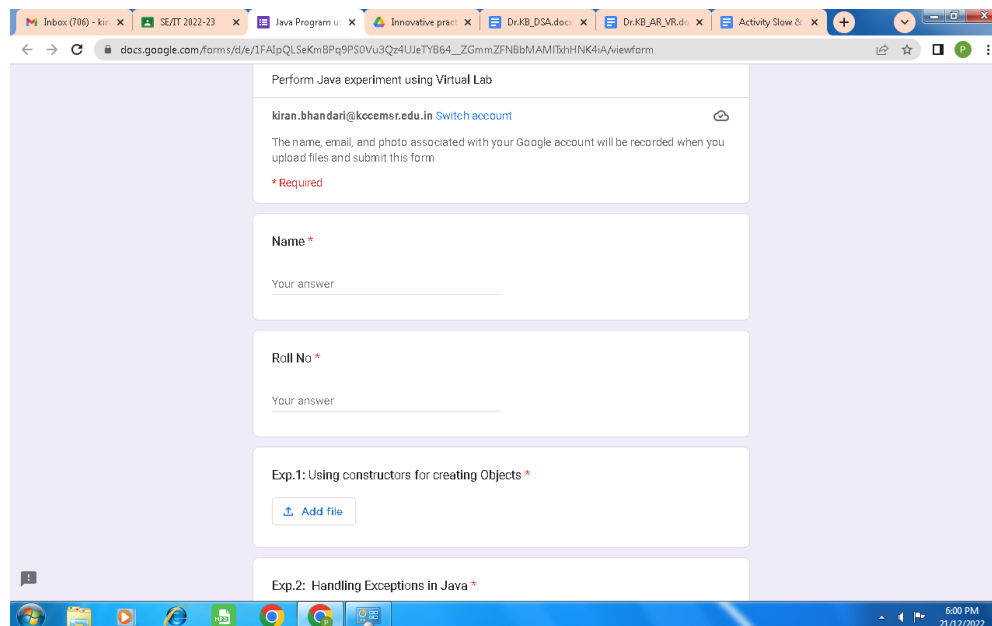
Activity Report: Mock practise exam as per university pattern was planned and students were asked to upload in the drive.

- 1. Solution of Dec 19 Q.P of Mumbai University**
- 2. All programs to be simulated in the virtual lab of IIT KGP?**

This activity was very beneficial as students were lack of writing practices.

All programs execution on simulator boosted confidence of students.

Proof:



The screenshot shows a web browser window displaying a Google Forms submission page. The browser's address bar shows the URL: docs.google.com/forms/d/e/1FAIpQLSeKnBPq9P30VU3Qz4UJeTYB64_ZGmmZFNbBbMAMITxhHNK4iA/viewform. The form is titled "Perform Java experiment using Virtual Lab". It shows the user's email as kiran.bhandari@kccemr.edu.in with a "Switch account" link. A note states: "The name, email, and photo associated with your Google account will be recorded when you upload files and submit this form". There are two required fields: "Name *" and "Roll No *", both with "Your answer" text below them. Below these fields, there are two sections for file uploads: "Exp.1: Using constructors for creating Objects *" and "Exp.2: Handling Exceptions in Java *". Each section has an "Add file" button. The browser's taskbar at the bottom shows various icons and the system clock indicating 5:00 PM on 21/12/2022.

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(Year 2022-23)

classroom.google.com/c/NDk3Mj11NzIxOTQ4

SE/IT 2022-23

Stream Classwork People Grades

1.a. Explain linear and non linear data structures. (2 marks)
1.b. Define a graph. List types of graph with examples. (3 marks)
1.c. What is expression tree? Give example. (3 marks)
1.d. Define asymptotic notations with an example.(3 marks)
1.e. Define double ended queue. List the variants of double ended queue. (3 marks)
1.f. What is recursion ?State its advantages and disadvantages. (3 marks)
1.g. What is linked list? State the advantages of linked list. (3 marks)
2.a. Write an algorithm for merge sort and comment on its complexity. (10 marks)
2.b. Write an algorithm for implementing stack using array. (10 marks)
3.a. Define binary tree. Find in-order, pre-order and post-order of following binary tree.
(10 marks)

```
graph TD; A((A)) --- B((B)); A --- C((C)); B --- D((D)); B --- E((E)); C --- F((F)); C --- J((J)); D --- G((G)); D --- H((H)); F --- I((I)); F --- K((K)); H --- L((L));
```

3.b. Write an algorithm for implementing queue using array.(10 marks)
4.a. Explain quick sort using an example. Write algorithm for it and comment on its complexity. (10 marks)
4.b. What is collision? What are the methods to resolve collision? Explain linear probing

5:59 PM
21/12/2022

Prepared by,
Dr.Kiran Bhandari

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INNOVATION IN TEACHING LEARNING
(Year 2022-23)

Class: SE (IT)

SEM: III

Subject: DBMS

Faculty Name: Devika Rani Roy

Academic Year: (III SEM) (2022-2023)

Activity: Mind Mapping

Activity Report

A mind map involves writing down a central theme and thinking of new and related ideas which radiate out from the centre. By focusing on key ideas written down in your own words and looking for connections between them, you can map knowledge in a way that will help you to better understand and retain information.

Explore new ideas and concepts

Help students get a better understanding of new ideas by having them create a mind map. A mind map can assist with understanding because it conveys hierarchy and relationships, allowing students to see the big picture.

Brainstorm

Get creative juices flowing with mind mapping. Mind maps are a great brainstorming tool and can help students let their thoughts flow freely while making important connections between ideas and concepts.

Take Notes

Encourage students to engage in active thinking instead of transcription by using mind maps for note taking. Mind maps encourage students to focus on keywords and ideas instead of just writing down what the teacher says.

Write essays

Students can create an essay outline, gather arguments and quotes or brainstorm ideas for your essays with mind maps.

Memorize information

Mind maps activate many levels of brain activity and are a great tool to help with memorization — from vocabulary words to a foreign language.

Create presentations

Have students use mind maps to present information in an interesting and engaging way with mind maps. Students can use mind mapping software to create a presentation in advance or create one on the spot during a live presentation.

Study for an assessment

Mind maps are a great way for students to gather all the information that may be covered on an exam including class notes, textbook chapters and reading lists.

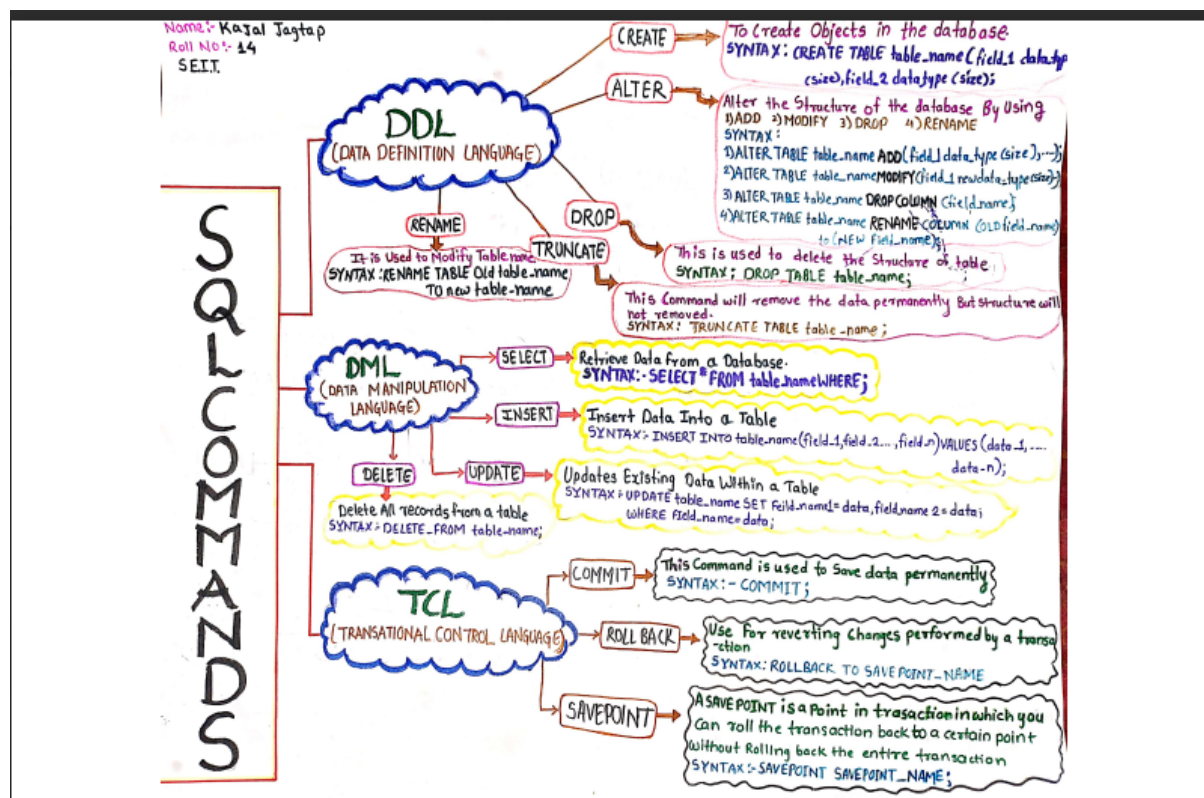
Execute group projects

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(Year 2022-23)

By using a mind map, students can visualize what needs to be done and who needs to do it. Using an online mind mapping program is best for group projects so students can easily share it.

Outcome: Mind mapping helps in generating, visualising, organising, note-taking, problem-solving, and decision-making, revising and clarifying your university topic, so that students can get started with assessment tasks. Essentially, a mind map is used to 'brainstorm' a topic and is a great strategy for students.

Sample proof:



Prepared by,
A.P Devika Rani Roy

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INNOVATION IN TEACHING LEARNING
(Year 2022-23)

Class: SE (IT)

SEM: III

Subject: SQL

Faculty Name: Devika Rani Roy

Academic Year: (III SEM) (2022-2023)

Activity: Quiz

Activity Report

A online quiz is usually a short test, and often doesn't have a huge impact on your grades as a test has. It's an easy way to keep track of your students and have an insight into the gaps of knowledge. It gives both the teacher and student a reflection. It shows students on what subject they have to focus. There are different kinds of questions that can be used for quizzes.

Analysis of result is done online which helps student in knowing in which area they are strong or weak. Difficulty level in quiz can be increased or decreased in various stages of quiz.

Outcome: Students enjoy playing quiz which helps them in even understanding that in which areas of subject they are strong or weak and improves their remembering skills. Students do not have to wonder if their answer is correct or not as they answer a question, the quiz programs tell the student. Students can answer without feeling badly about having a wrong answer as can happen in a class.

The screenshot shows a Google Forms interface for a quiz titled "SQL Quiz 22-23". The form is set to "Attempt all the questions.....All the best". It includes two short-answer text fields for "Name *" and "Roll no. *". Below these is a question: "Which of these query will display the table given above ? *". The interface also shows a top bar with "SQL Quiz 22-23", "All changes saved in Drive", and a "Send" button. A sidebar on the right contains icons for adding, duplicating, deleting, and sharing the form. The bottom of the form shows "Questions", "Responses" (59), and "Settings" tabs, along with "Total points: 20".

Links of Quiz: <https://forms.gle/EfcxZLeEx9mWECop6>

Prepared by,
A.P Devika Rani Roy

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Mini-Project/Content Beyond Syllabus Activity Report

SUBJECT: Engineering Mathematics III

ACTIVITY: Mini-Project Presentation (**Content beyond syllabus**)

ACTIVITY REPORT:

Second year engineering students are having the self learning topics in their syllabus.

The topics are

1. Heaviside's Unit Step function, Laplace Transform of Periodic functions, Dirac Delta Function.
2. Applications to solve initial and boundary value problems involving ordinary differential equations
3. Complex form of Fourier Series, orthogonal and orthonormal set of functions, Fourier Transform.
4. Conformal mapping, linear, bilinear mapping, cross ratio, fixed points and standard transformations
5. Covariance, fitting of exponential curve.
6. Skewness and Kurtosis of distribution (data)

Four to five students have been allotted in each group for preparing the presentations. The students have prepared a proper presentation with a powerpoint presentation using a mind mapping tool. Mini-Project presentations have been taken in the offline / online mode.

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OUT COME:

1. The students have adapted the self learning aspect in their Mini-project reporting and presentation.
2. The students have acquired the skill of typing equations in word and PPTs.
3. The students have acquired the presentation skills.
4. The students have given offline in front of the other students in their classroom.

Prepared by,
A.P.Bhuma Devi

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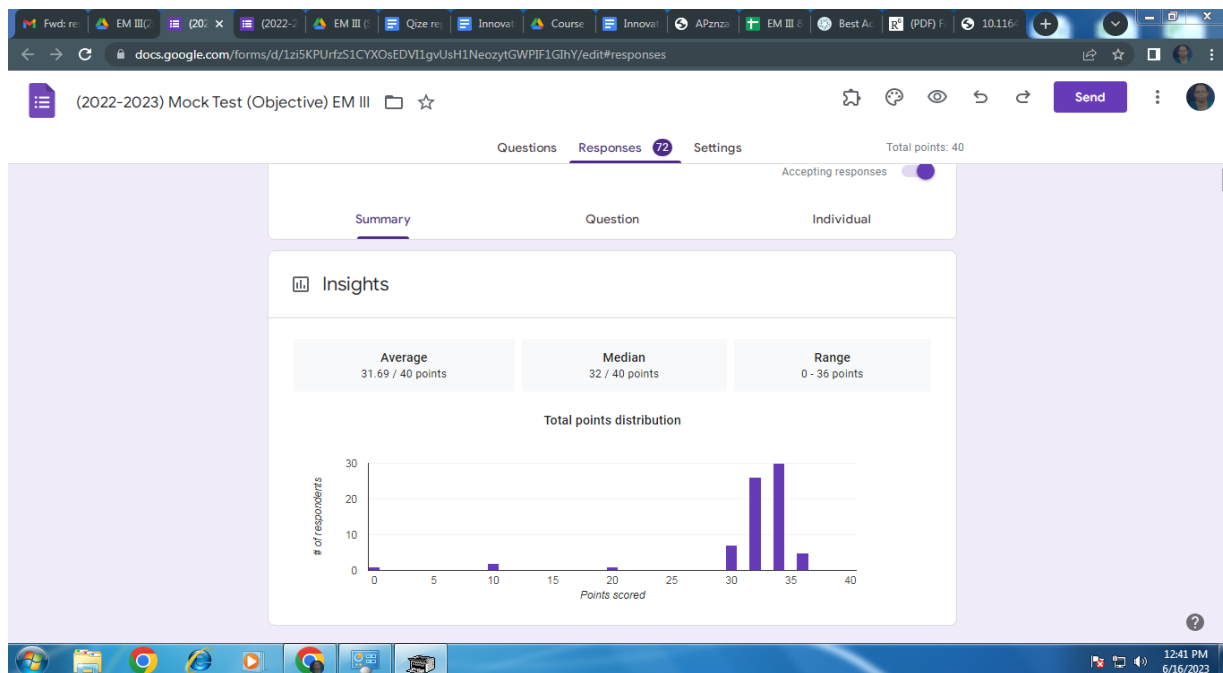
Online Quiz Report

SUBJECT: Engineering Mathematics III

ACTIVITY: Online quiz

ACTIVITY REPORT:

As a remedial activity second year Information technology students had been assessed with a consolidated online quiz for the above-mentioned subject. Ten percent of termwork of the subject had been taken from scores of online quizzes. Objective questions are effective tools to test the students' knowledge acquisition.



Prepared by,
A.P.Bhuma Devi

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(Year 2022-23)

Class: SE (IT)

SEM: V

Subject: EEB

Faculty Name: Devika Rani Roy

Academic Year: (VSEM) (2022-2023)

Activity: Mind Mapping

Activity Report

A mind map involves writing down a central theme and thinking of new and related ideas which radiate out from the centre. By focusing on key ideas written down in your own words and looking for connections between them, you can map knowledge in a way that will help you to better understand and retain information.

Explore new ideas and concepts

Help students get a better understanding of new ideas by having them create a mind map. A mind map can assist with understanding because it conveys hierarchy and relationships, allowing students to see the big picture.

Brainstorm

Get creative juices flowing with mind mapping. Mind maps are a great brainstorming tool and can help students let their thoughts flow freely while making important connections between ideas and concepts.

Take Notes

Encourage students to engage in active thinking instead of transcription by using mind maps for note taking. Mind maps encourage students to focus on keywords and ideas instead of just writing down what the teacher says.

Write essays

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Create presentations

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Study for an assessment

Mind maps are a great way for students to gather all the information that may be covered on an exam including class notes, textbook chapters and reading lists.

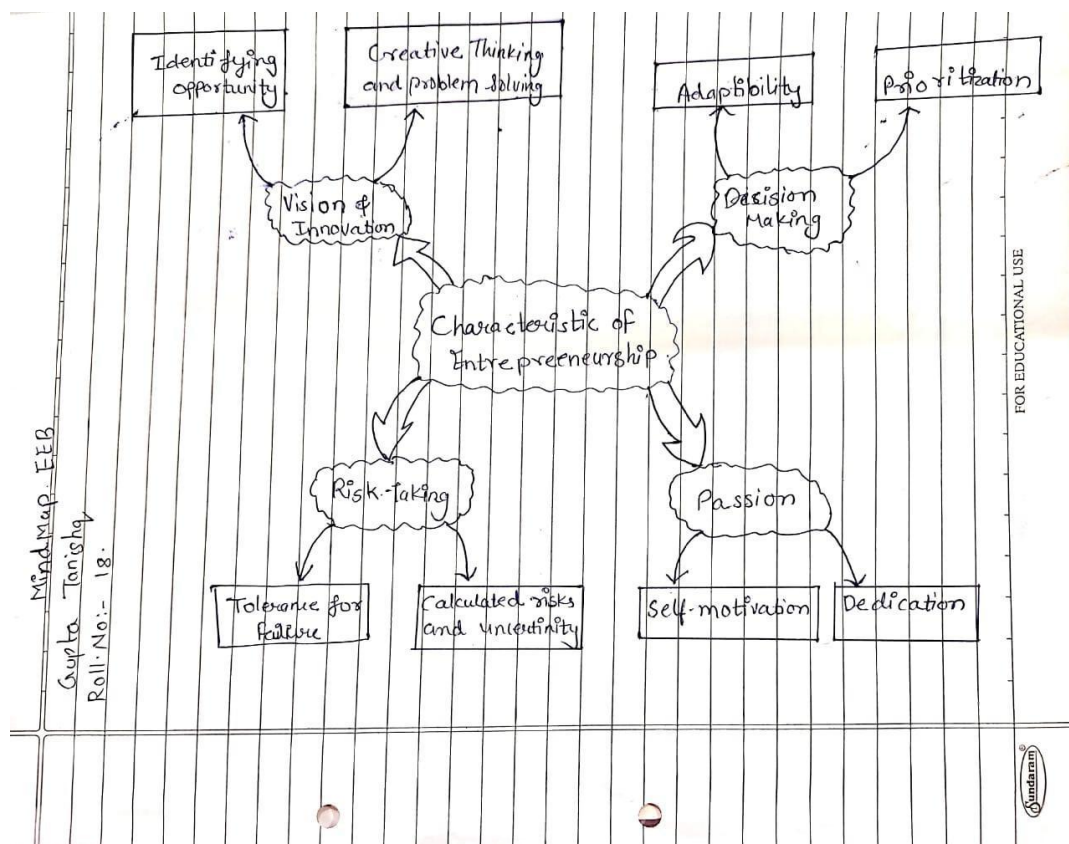
Execute group projects

By using a mind map, students can visualize what needs to be done and who needs to do it. Using an online mind mapping program is best for group projects so students can easily share it.

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Outcome: Mind mapping helps in generating, visualising, organising, note-taking, problem-solving, and decision-making, revising and clarifying your university topic, so that students can get started with assessment tasks. Essentially, a mind map is used to 'brainstorm' a topic and is a great strategy for students.

Sample proof:



Prepared by,
A.P Devika Rani Roy

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Department of Information Technology
INNOVATION IN TEACHING LEARNING
(Year 2022-23)

Class: TE (IT)

SEM: V

Subject: EEB

Faculty Name: Devika Rani Roy

Academic Year: (V SEM) (2022-2023)

Activity: Quiz

Activity Report

A online quiz is usually a short test, and often doesn't have a huge impact on your grades as a test has. It's an easy way to keep track of your students and have an insight into the gaps of knowledge. It gives both the teacher and student a reflection. It shows students on what subject they have to focus. There are different kinds of questions that can be used for quizzes.

Analysis of result is done online which helps student in knowing in which area they are strong or weak. Difficulty level in quiz can be increased or decreased in various stages of quiz.

Outcome: Students enjoy playing quiz which helps them in even understanding that in which areas of subject they are strong or weak and improves their remembering skills. Students do not have to wonder if their answer is correct or not as they answer a question, the quiz programs tell the student. Students can answer without feeling badly about having a wrong answer as can happen in a class.

The screenshot shows a web-based quiz interface. At the top, there's a header with the title 'E & EB quiz 22-23' and a 'Send' button. Below the header, there are tabs for 'Questions', 'Responses' (with a count of 67), and 'Settings'. The main content area is titled 'Section 1 of 2' and 'E & EB quiz'. It includes a 'Form description' stating: 'This form is automatically collecting emails for K.C.College of Engineering And Management Studies And Research users. [Change settings](#)'. Below the description, there's a 'NAME' field and a 'Short answer' dropdown menu. A 'Short answer text' input field is also present. At the bottom, there's a checkbox for 'Answer key' (0 points) and a 'Required' toggle switch.

Prepared by,
A.P Devika Rani Roy

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(Year 2022-23)

Class: TE (IT)
IT

SEM: VI

Subject: GREEN

Faculty Name: Devika Rani Roy

Academic Year: (VI SEM) (2022-2023)

Activity: Mind Mapping

Activity Report

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Write essays

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Create presentations

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Study for an assessment

Mind maps are a great way for students to gather all the information that may be covered on an exam including class notes, textbook chapters and reading lists.

Execute group projects

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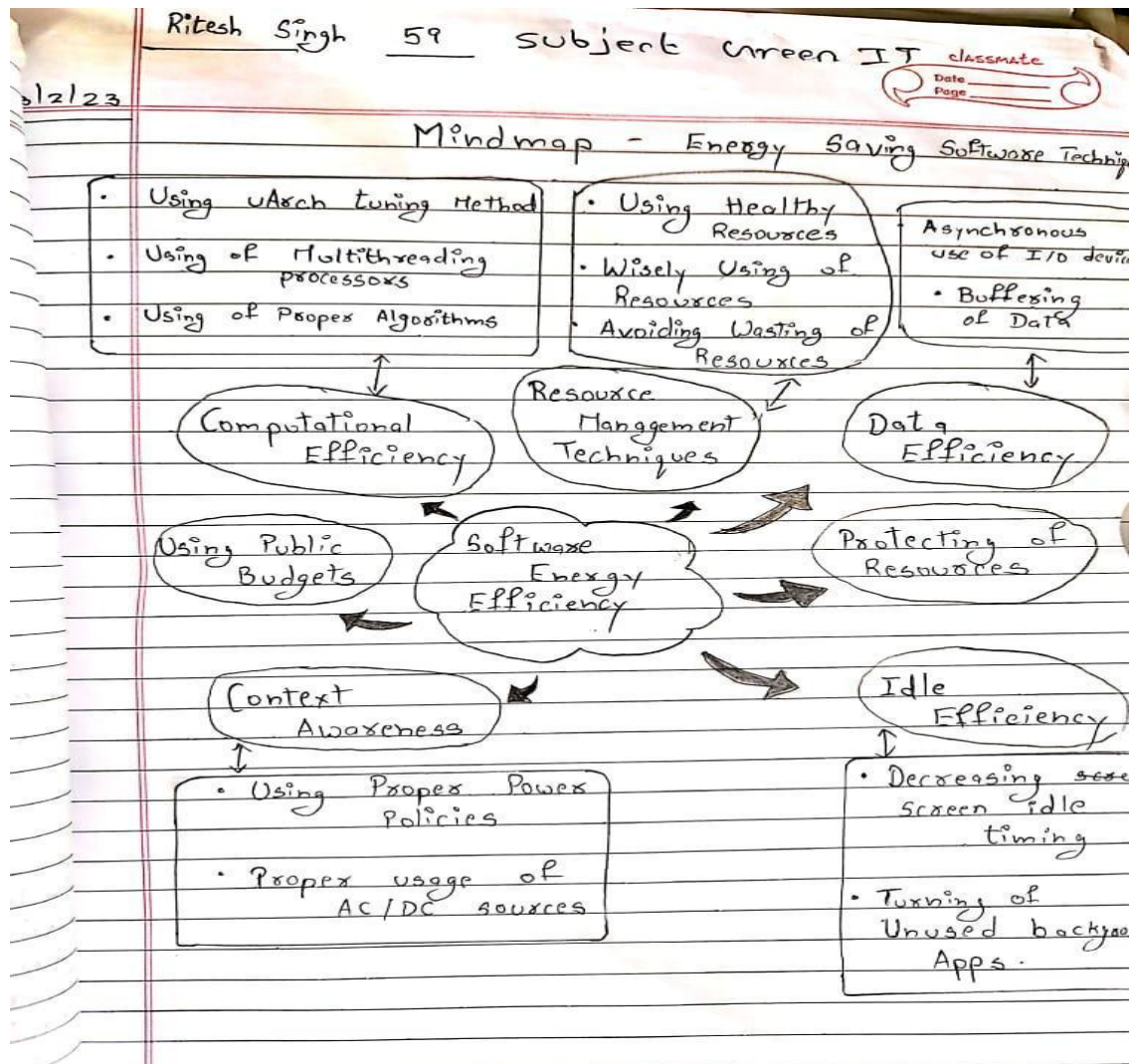
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Sample Proof :



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A.P Devika Rani Roy

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(Year 2022-23)

Mini-Project/Content Beyond Syllabus Activity Report

SUBJECT: Engineering Mathematics IV

ACTIVITY: Flip Classroom which is Mini-Project Presentation (**Content beyond syllabus**)

ACTIVITY REPORT:

Second year engineering students are having the self learning topics in their syllabus.

The topics are

1. Matrices derogatory and non-derogatory
2. Applications of Complex Integration
3. Boundary values problems of Z-Transform
4. Test significance for Large samples, and Yate's Correction
5. Sensitivity Analysis, Two-Phase and Revised Simplex Method
6. Problems with two inequality constraints, Gradient search Method.

Four to five students have been allotted in each group for preparing the presentations.

The students have prepared a proper presentation with a powerpoint presentation.

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(Year 2022-23)

This screenshot shows a Google Meet interface during a presentation. The main window displays a slide titled "Computer Graphics: The mathematics of a matrix in computer graphics is the ability to represent geometric data in different coordinate systems. A matrix is composed of elements arranged in rows and columns. In simple terms, the concept of a matrix can be described as representing the scale or rotation a vector with x and y coordinates during a transformation." It also includes sections for "Cryptography: The key matrix is used to encrypt the messages, and the inverse is used to decrypt the encrypted messages." and "Mathematics: In geometry, matrices are widely used for specifying and representing geometric transformations (the coordinate rotation and coordinate change). Wireless communication and signal processing." The right sidebar shows a grid of participants including Shruti Chavan, Dishita Temu, KUSHAL AMIN, Niveditha Shrugar, and others. The bottom status bar indicates the time is 2:27 AM on 8/11/2022.

This screenshot shows a Google Meet interface during a presentation. The main window displays a slide titled "3 Transition Matrices and Similarity" with mathematical definitions and matrices. It defines $T: V \rightarrow V$ (a L.T.), $B = \{v_1, v_2, \dots, v_n\}$ (a basis of V), and $B' = \{w_1, w_2, \dots, w_n\}$ (a basis of V). It then defines the matrix of T relative to B as $A = [T(v_1) \ T(v_2) \ \dots \ T(v_n)]$, the matrix of T relative to B' as $A' = [T(w_1) \ T(w_2) \ \dots \ T(w_n)]$, the transition matrix from B' to B as $P = [v_1 \ v_2 \ \dots \ v_n]$, and the transition matrix from B to B' as $P^{-1} = [w_1 \ w_2 \ \dots \ w_n]$. It concludes with the similarity transformation $A' = P^{-1}AP$. The right sidebar shows participants including KUSHAL AMIN, ABHISHEK JOSHI, MOHAMMED ASIF MOHA..., SAMEER SHRIKHANDE, Megha Atale, and TEJAS SHINDE. The bottom status bar indicates the time is 2:02 AM on 8/11/2022.

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OUT COME:

1. The students have adapted the self learning aspect in their Mini-project reporting and presentation.
2. The students have acquired the skill of typing equations in word and PPTs.
3. The students have acquired the presentation skills.
4. Then students have acquired the digital skills.

Prepared by,
A.P.Bhuma Devi

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(Year 2022-23)

Class: SE (IT)

SEM: VI

Subject: Green IT

Faculty Name: Devika Rani Roy

Academic Year: (VI SEM) (2022-2023)

Activity: Quiz

Activity Report

An online quiz is usually a short test, and often doesn't have a huge impact on your grades as a test has. It's an easy way to keep track of your students and have an insight into the gaps of knowledge. It gives both the teacher and student a reflection. It shows students on what subject they have to focus. There are different kinds of questions that can be used for quizzes.

Analysis of result is done online which helps student in knowing in which area they are strong or weak. Difficulty level in quiz can be increased or decreased in various stages of quiz.

Outcome: Students enjoy playing quiz which helps them in even understanding that in which areas of subject they are strong or weak and improves their remembering skills. Students do not have to wonder if their answer is correct or not as they answer a question, the quiz programs tell the student.

Links of Quiz:

<https://forms.gle/aTSrKxohrhYySBHn8>

Prepared by,
A.P Devika Rani Roy

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Class : BE(IT)

Semester : VIII

Subject : BDA

Subject: Big Data Analytics

Activity: Quiz on Big Data Analysis and Processing.

Activity Report: Students of BE are given BDA Google quiz on real time applications of data Analytics and processing . Students have understood applications of Big data Analytics in real time .

Proof:

https://docs.google.com/forms/d/e/1FAIpQLSdA5PZ_h0_yudEw44Gs2zxjTv5hYG5oq2YDFOx2sVMGW9PwTA/viewform?usp=sf_link

BDA Innovative Quiz

19/04/2023

aarti.abhyankar@kccemsr.edu.in [Switch account](#)



Not shared



Draft sav

* Indicates required question

1.Which of the following is a tool used for processing and analyzing Big Data? * 2 poi

- ☐ a) Hadoop
- ☐ b) MySQL
- ☐ c) PostgreSQL
- ☒ d) Oracle

**Prepared by,
A.P Aarti Abhyankar**

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Class : BE (IT)

Semester : VIII

Subject: Major Project -II

Activity:Peer Learning Activity

Activity Report: BE IT students assigned with Peer Learning activity for major project-II

Peer learning is an education method that helps students solidify their knowledge by teaching each other. One student tutoring another in a supervised environment can result in better learning and retention.

Objective-To teach another, one must first fully understand a concept themselves. Verbalizing a concept and sharing the information with a peer serves to **reinforce the knowledge gained**.

Proof:



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(Year 2022-23)

Excelssior Education Society's
 K.C. College of Engineering and Management Studies and Research
 (Affiliated to the University of Mumbai)
 Mith Bunder Road, Near Hume Pipe, Kopri, Thane (E)-400603
 Department of Information Technology
 Academic Year (2022-23)

Peer Evaluation Rubrics Sheet

Internal Major Project Presentation

Date: 20/04/2023 Topic: Transformer (Speaker to host)

Sr.No.	Roll No.	Name of Student	Communication /Presentation (out of 5)	PPT (out of 5)	Implementation (25)	Result (5)	Test Case(S)	Green I.T.practices(S)	TOTAL
1	45	Pratikam	4	4	20	4	4 3	4 3	40
2	27	Vikram	4	4	20	4	4 3	4 3	40
3	8840	Chiranjeev	4	4	20	4	2	4 3	40
4	6035	Sandeep	4	4	20	4	3	4 3	40
5									

Feedback about Peer Evaluation Methodology: Good for developing interactive skills

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Peer Evaluation Rubrics Sheet

Internal Major Project Presentation

Date: 20-4-2023 Topic: Cloud Application for IoT

Sr.No.	Roll No.	Name of Student	Communication /Presentation (out of 5)	PPT (out of 5)	Implementation (25)	Result (5)	Test Case(S)	Green I.T.practices(S)	TOTAL
1	21	Shreshth Jain	4	4	25	5	4	4	40
2	11	Arishat Singh	5	4	25	5	4	4	47
3	12	Kush	5	4	25	5	4	4	47
4									
5									

Feedback about Peer Evaluation Methodology: It is an interesting concept but should have been implemented for SE & TE and not just for

Below are even more reasons why peer learning is important.

Teamwork: Peer learning fosters teamwork, cooperation, patience, and better social skills. In a cooperative peer learning environment, each student's strengths can serve to complement the group and enhance learning. Becoming skilled at working with and learning from one's peers can start at a young age in the classroom.

Better Feedback: Often, students are not able to recognize the gaps in their own knowledge. But when they learn with their peers, they can see new processes for answering questions and come up with creative, collaborative solutions. Importantly, they will carry these new perspectives, as well as a willingness to seek and accept feedback, with them as they progress in their education.

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INNOVATION IN TEACHING LEARNING
(Year 2022-23)

Supports Diversity: Peer learning fosters diversity and depth in a student's knowledge and opinions. Learning from peers of different backgrounds, views, and ethnicities fosters an environment of mutual respect, gratitude, and progress. It's the differences between students that add a richness to the learning environment. Supporting diversity through peer learning is part of culturally responsive teaching.

Prepared by,
Project Co-ordinator