



**EXCELSSIOR EDUCATION SOCIETY'S
K. C. COLLEGE OF ENGINEERING & MANAGEMENT STUDIES & RESEARCH
KOPRI, MITH BUNDER ROAD, THANE (E)**

DEPARTMENT OF HUMANITIES & APPLIED SCIENCES

Innovative Teaching and Learning- 2023-24

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2	EC-I	Group Presentation
3	EM-I	Prerequisite Quiz
4	EM	Quiz Test

K. C. College of Education and Management Studies and Research
(Affiliated to the University of Mumbai)
MithBund Road, Near Hume Pipe, Kopri, Thane (E)-400603
Department of Humanities and Applied Sciences

Innovation in Teaching Learning

A.Y. 2023-24

F.E.(SEM I)

Subject: Engineering Physics I

Activity: Flipped Classroom

Flipped Classroom is an idea of blended learning to increase engagement of students in the learning process. Students of first year class prepared the decided topic and presented one by one or in a group of two in front of the whole class. Study material regarding this was already provided to the students.

Outcome: Students found the activity interesting and they performed very well.

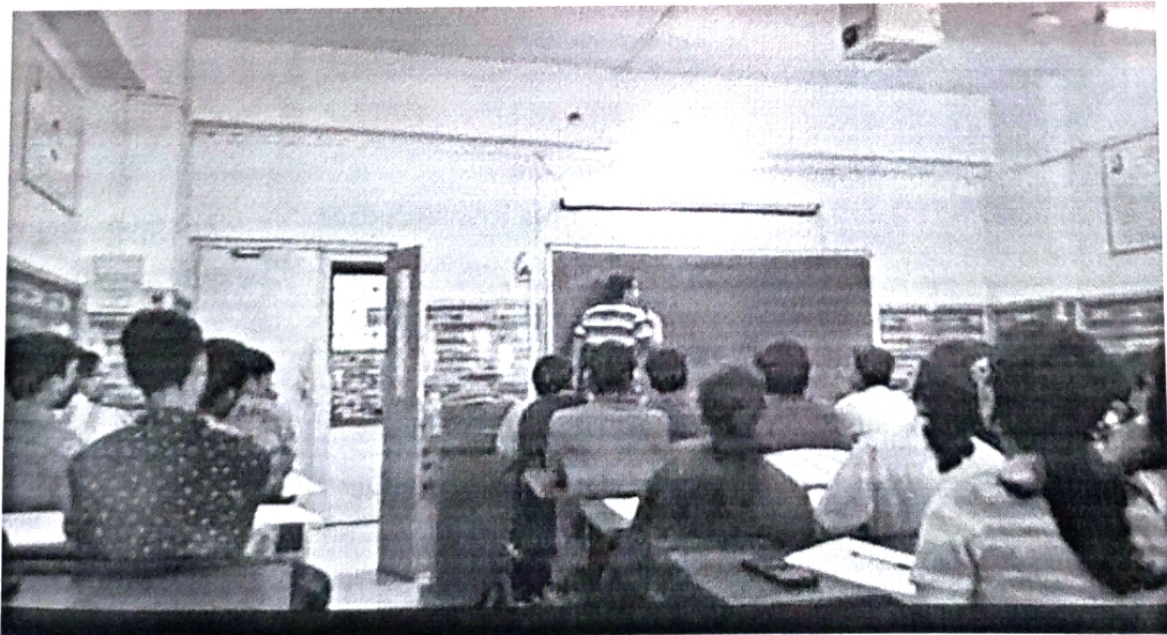
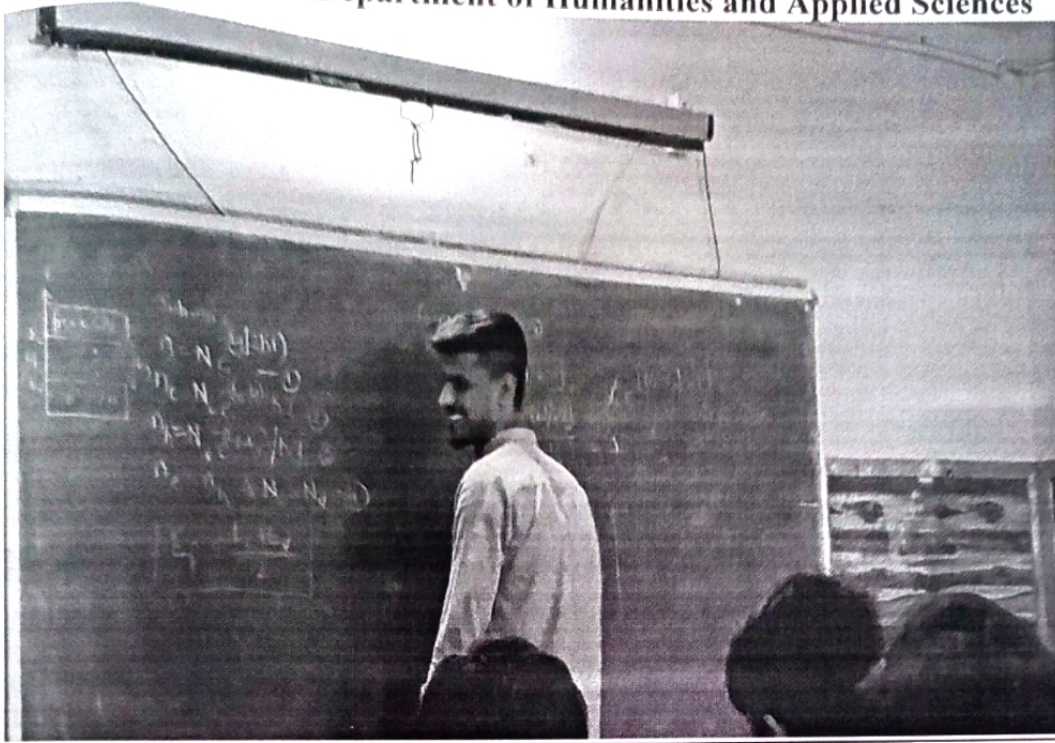
Smchaul
6/12

A.P. SWATI PANVALKAR

(Subject I/C)



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Innovation in Teaching Learning

A.Y. 2023-2024

F.E. (SEM I)

Subject: Engineering Chemistry I

Activity: Group Presentation

A form of blended learning known as Group Presentation is employed to enhance student engagement in the learning journey. First-year students collaboratively prepared and presented on the chosen topic, either individually or in pairs, before the entire class. The necessary study materials for this activity were beforehand distributed to the students.

Outcome: Activity was conducted for better understanding of the topic through group presentations.

Signature
6/1/2



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Innovative Practices 2023-2024

Activity Report

Class: FE B,C

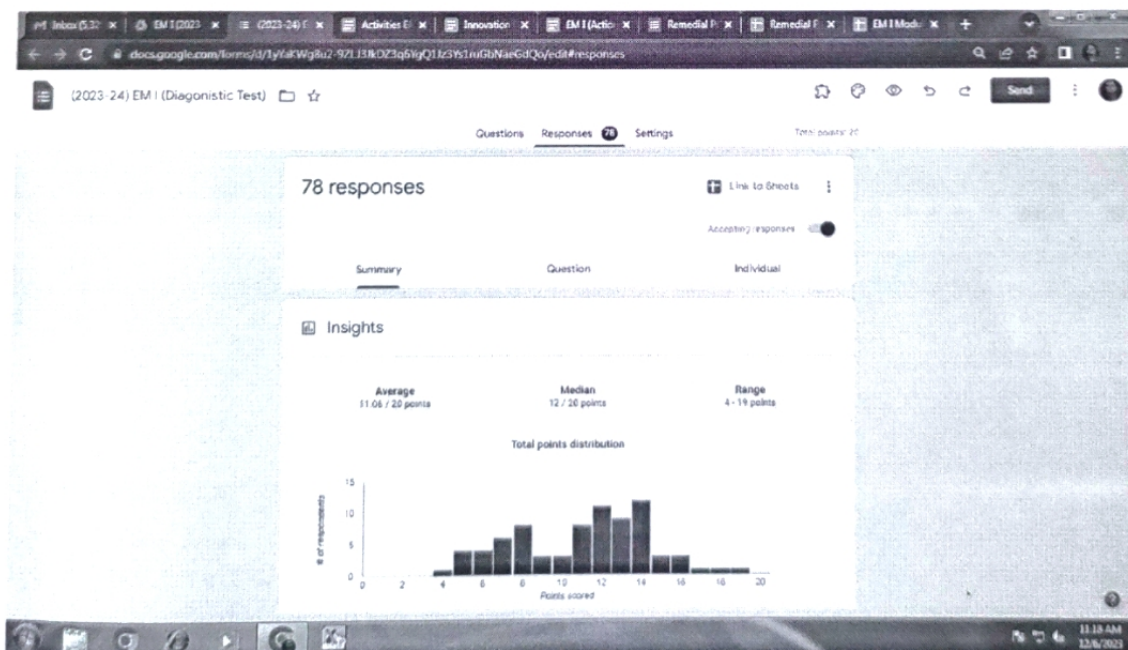
Semester: 1

Subject: FEC 101-Engineering Mathematics I

Activity 1: Prerequisite Quiz Online

In the beginning of semester 1 (2023-24) all students had given an online quiz. The activity was conducted to recall the previous mathematical-knowledge among the first year Engineering students. Based on the results the students were given a chance to improve their ability in the concept acquisition for the subject Engineering Mathematics-I.

Insights

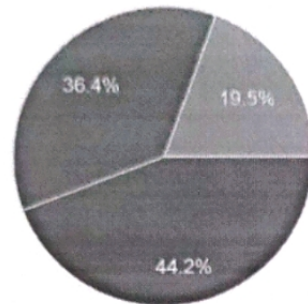




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Branch

77 responses

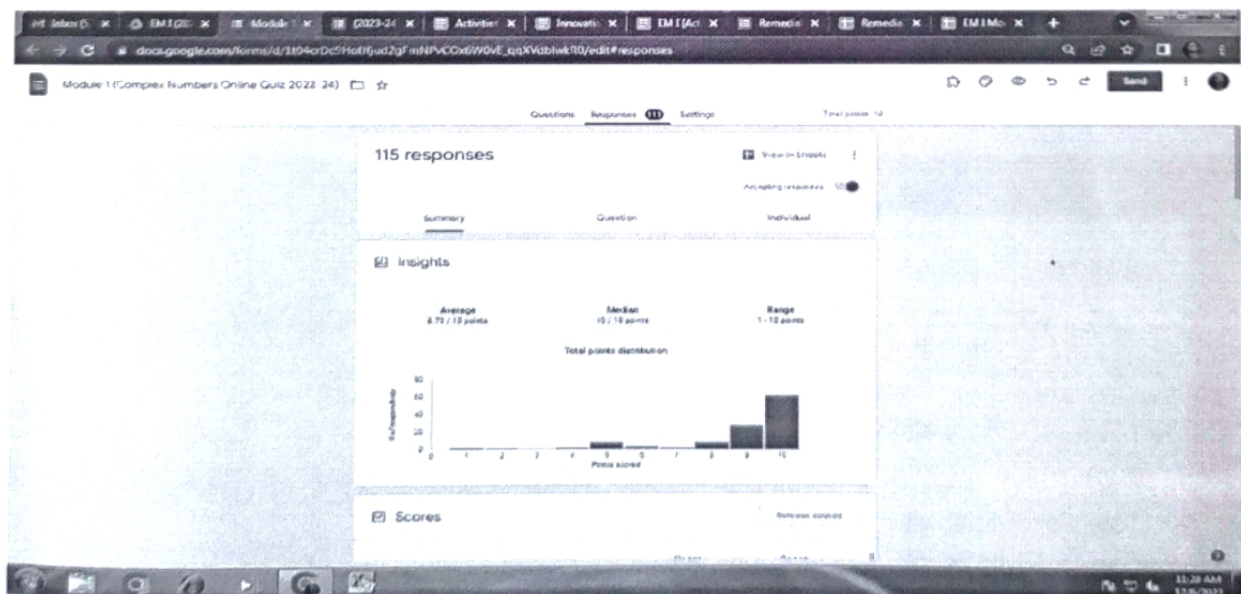


● COMP
● EXTC
● IT

Activity 2: Online Quiz Module 1, 2

In order to improve the results of internal assessment, the students had been given training for Module number 1 and 2 (Complex numbers, Hyperbolic and Logarithmic functions) as online quizzes.

Insights Module No. 1 Complex numbers





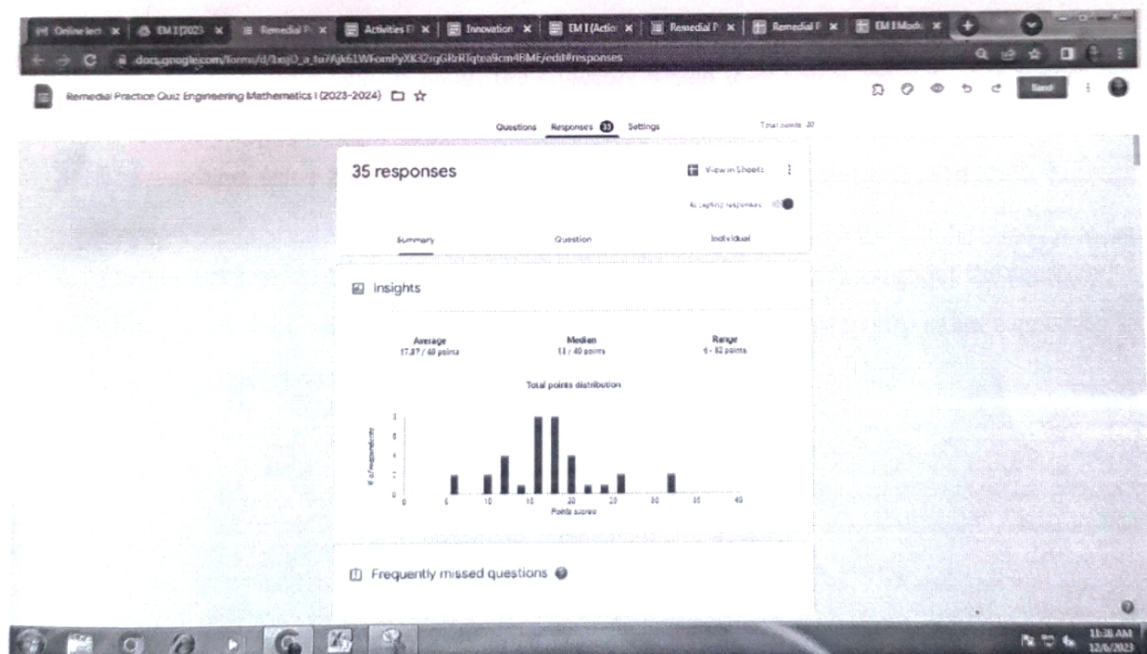
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Activity 4: Online Quiz Based on Entire syllabus of Engineering Mathematics-I

At the end of the semester I, First year students of Engineering have been given "Online Quiz" with Google form. Nearly 35 students have given the response for that quiz. It was revision activity for subject Engineering Mathematics I, from

1. Complex Numbers
2. Hyperbolic Functions
3. Partial Differentiation
4. Applications of Differentiation
5. Matrices

Insights



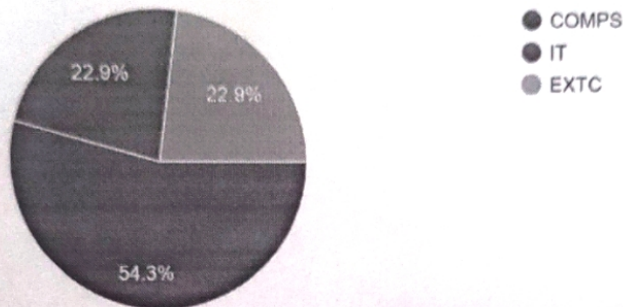


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Branch

35 responses



Outcome:

1. The students were able to recall the concepts which they learnt in the previous classes.
2. The students were able to recall the concepts which they learnt module-wise before the first class test.
3. The students have been experiencing online lectures for partial differentiation concept acquisition.
4. The students were able to recall the concepts which they learnt throughout the semester.
5. This activity motivated the students to perform better in the University exam especially in objective type of questions

dm
6/12/2023

MCQ Test

Subject: Engineering Mechanics

Topic : Friction

* Indicates required question

1. Email *

2. Email *

3. Student Name (Surname_First Name_Middle Name) *

4. Branch *

Mark only one oval.

☐ Computer Engineering

☐ EXTC

☐ IT

5. Division *

Mark only one oval.

☐ A

☐ B

☐ C

☐ D

6. Roll No. *

7. Mobile Number (preferably what's app number) *

MCQ

8. 1 *

1 point

Frictional force depends on _____

- a. surface area in contact
- b. roughness of surface
- c. both a. and b.
- d. none of the above

Mark only one oval.

☐ A

☐ B

☐ C

☐ D

The body will move only when

- a. Force of friction = applied force
- b. Force of friction $<$ applied force
- c. Force of friction $>$ applied force
- d. All of the above

Mark only one oval.

- ☐ A
- ☐ B
- ☐ C
- ☐ D

10. 3 *

1 point

The ratio of the limiting force of friction (F) to the normal reaction (R) is known as

- a. Coefficient of friction
- b. Force of friction
- c. Angle of friction
- d. None of the above

Mark only one oval.

- ☐ A
- ☐ B
- ☐ C
- ☐ D

The force of friction (F) is equal to

- a. $\mu R/2$
- b. μR
- c. $2\mu R$
- d. $\mu R/3$

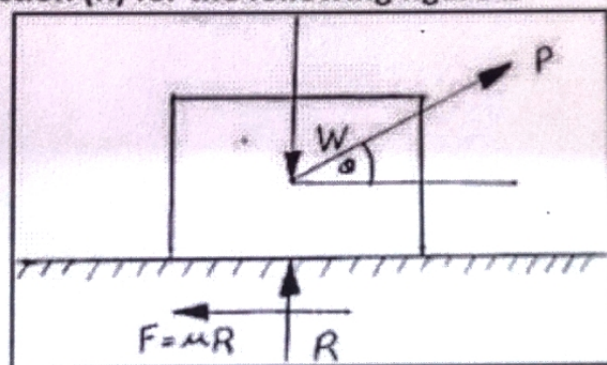
Mark only one oval.

- ☐ A
- ☐ B
- ☐ C
- ☐ D

12. 5 *

1 point

The value of Normal reaction (R) for the following figure is



- a. $W - P\sin\theta$
- b. $W + P\sin\theta$
- c. $P - W\sin\theta$
- d. $P + W\sin\theta$

Mark only one oval.

- ☐ A
- ☐ B
- ☐ C
- ☐ D

Timestamp	Email Address	Score	Email	Student Name (Surname Branch)	Division	Roll No.	Mobile Number (preferab 1)
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