



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
NAAC accredited with B++ grade

Department of Humanities and Applied Sciences

2019-20 I Sem

Innovative Practices Followed in Teaching and Learning		
Sr. No.	Activities	Subject
1	1. Online Qize	Engineering Mathematics-FEC101
2	2. Think Pair share	Engineering Physics -FEC102
3	3. Animated Teaching	Engineering Chemistry-FEC103
4	4. Designing of Experiment	Engineering Mechanics-FEC104
5	5. Bridge Course Aim Spice Circuit Simulation for DC Circuit	Basic Electrical Engineering -FEC105



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A.Y.2019-20

CLASS: F.E. A,B,C,D

SEMESTER: I

SUBJECT: ENGINEERING MATHEMATICS-I (FEC101)

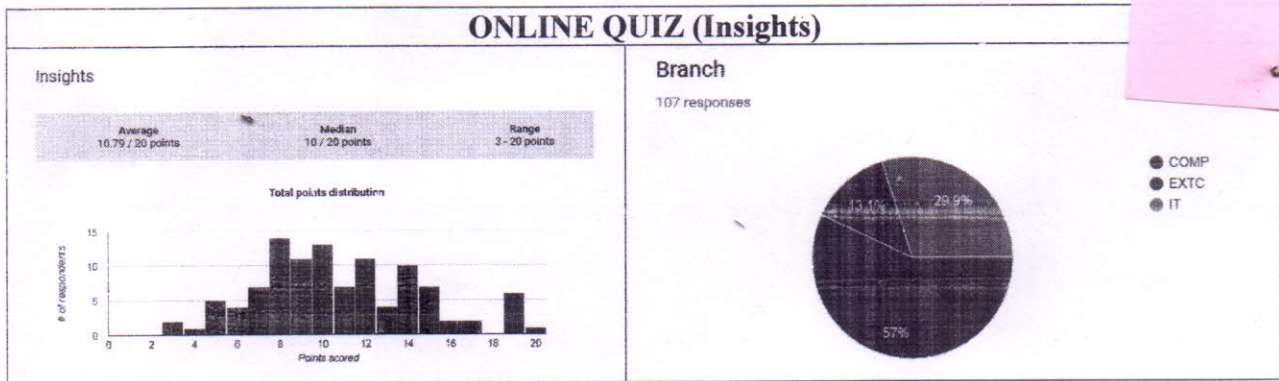
ACTIVITY: ON LINE QUIZ (For Pre-requisite)

ACTIVITY REPORT:

Academic year 2019-20 has been started with Induction program as per the Modular Curriculum plan of AICT and University of Mumbai for the First Year Engineering students. As per the plan the students have been given the Pre-requisite test in Basic Mathematics, the test was conducted online which was the first ICT mode practice has been encountered by the First Year Engineering Students.

OUT COME:

1. According to the students performance the special Lecture has been conducted, by connecting Basic and Higher Engineering Mathematics.
2. Through the above activity students have revised the concepts and got practice for the ongoing semester topics.





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CLASS: F.E. C,D

SEMESTER: I

SUBJECT: ENGINEERING PHYSICS -I (FEC102)

ACTIVITY: THINK PAIR SHARE (For Intrinsic & Extrinsic Semiconductor)

ACTIVITY REPORT:

It is a innovative tool in which students were asked to sit in pairs on one- one bench. Topic, intrinsic & extrinsic semiconductor was given to the students. Without discussing with each other first students wrote individually in their book and then after 20 minutes they discussed their points with their partner and then one-one pair of students came forward and explained and shared their views based on the topic. Students wrote keywords of their content on the board.

OUT COME:

Students found this activity as an effective way of learning.

Smchoud



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CLASS: F.E. C&D

SEMESTER: I

SUBJECT: ENGINEERING CHEMISTRY -I (FEC103)

ACTIVITY: Animated teaching through sharing of videos(For Polymers)

ACTIVITY REPORT: For the topics during the lecture period. This makes the concept clearer to understand. This is very usual practice in my lecture for the topics which is difficult to understand and can be explained through video lectures.

OUT COME: By the video lectures and animations students had made clarity of concepts.

Links for topics like polymers and:

1. <https://youtu.be/wCMUCFXA.Vo> (Transfer Moulding)
2. <https://youtu.be/b1U9W4iNDiQ> (Injection Moulding)



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CLASS: F.E. (A,B,C,D)

SEMESTER-I

SUBJECT: BASIC ELECTRICAL ENGINEERING (FEC105)

ACTIVITY:

- Bridge Course (Crossword Activity & Online Quiz)
- Aim-Spice Circuit Simulation for DC Circuits
- Assignment No. 2 (Online Quiz)

ACTIVITY REPORT:

In order to recall the basic concepts of emf, potential difference, current, ohm's law, resistance, resistivity, series and parallel connections, power dissipation in resistance, effect of temperature on resistance, Faraday's laws of electromagnetic induction, Working of Wattmeter for the students crossword activity and online line quiz has been conducted.

To encourage the use of open source software the first year engineering students have been undergone the practice of solving dc circuit by using Aim-Spice Circuit Simulation software.

For the assignment purpose another online quiz from A.C. circuits, three-phase A.C. circuits, Single-phase transformers, three-phase machines, single-phase machines and D.C. machines has been conducted.

OUTCOME:

Through the above activity students recalled the concepts, experienced the use of open source software and one formative assessment also has been done.

Neha

