



EXCELSSIOR EDUCATION SOCIETY'S

K.C. College of Engineering & Management Studies & Research

MithBunder Road, Kopri, Thane (E)

Department of Humanities and Applied Sciences

A.Y.2018-19

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4.		Applied Physics II	SCILAB open source software in Applied Physics
5.	I	Applied Mathematics I	Online Quiz
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9.		Environmental Studies	Field Trip



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A.Y.2018-19

CLASS: F.E. A,B

SEMESTER: II

SUBJECT: APPLIED CHEMISTRY-II (FEC203)

ACTIVITY: Synthesis of Eco-friendly Gulal / Green Chemistry

ACTIVITY REPORT:

Holi is festival of colours and celebration of this with natural colourants and dyes was an age old tradition. It was forgotten after the discovery of synthetic colourants and dyes inmiddle of 19 th century. Now- a-days ,an ageold art of dyeing with natural colourants isgaining momentum because of carcinogenic effects of synthetic dyes. These synthetic dyes and colourants are being used in textile and food industry. Government of Germany was the first to take initiative to put up ban on these harmful carcinogenic synthetic dyes. A large amount of dry Holi gulal used in market are carcinogenic in nature. Several synthetic dyes like AURAMINE (YELLOW COLOUR), MALACHITE GREEN (GREEN COLOUR), RODAMINE B (RED COLOUR), METHYL VIOLET (VIOLET COLOUE) have been used for the preparation of dry Holi gulal. To educate and revive the old ways, herbal gulal was prepared in the chemistry lab of Humanities and Applied Sciences department. First year students had prepared yellow gulal from flowers of Butea monosperma (dye-Butin common name of flower is tesu flower),red gulal from beet root (pigment-betalain), green gulal from spinach leaves (chlorophyll). Students extracted these organic colourants by cold extraction methods. These natural colourants are mixed with natural ingredients to make safe and ecofriendly vibrant herbal gulals.



OUTCOME:

Student learned Eco friendly synthesis of gulal.

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A.Y.(2018-19)

Department of Humanities and Applied Sciences

CLASS: First Year of Engineering, Div.-C & D SEMESTER: II

SUBJECT: APPLIED CHEMISTRY-II (FEC203)

FACULTY: Mr. Ajay Mishra

ACTIVITY: Use of online network for the topics applicable. (ICT-mode)

ACTIVITY REPORT:

By use of online animated videos and images available particularly on you tube and Google image many of the topics which can be fascinated by working models collaborated with the regular lecture made the students understand the topic clearly and practically. This type of activity found more helpful for the topics like alloy and powder metallurgy, composite material. Example – for use of German silver I asked the students to refer the Google image, students find many products which is prepared from German silver which is not given in reference book. Similar case is done for understanding of topics like powder metallurgy; students can directly see how it is functioned in industry .Here I like to comment it is much more different experience than using projectors because students are involved in regular discussion.

OUT COME:

This type of method makes:

1. The students alive.
2. Students take part in the lecture and discussion.
3. Lectures become more Fascinating and practical.
4. Concepts become more clear.
5. Topics become interesting .

Ajay



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A.Y.(2018-19)

Department of Humanities and Applied Sciences

CLASS: First Year of Engineering, Div.-C,D SEMESTER: II

SUBJECT: Structured Programming Approach (FEC205)

FACULTY: Ms. Sana Haji

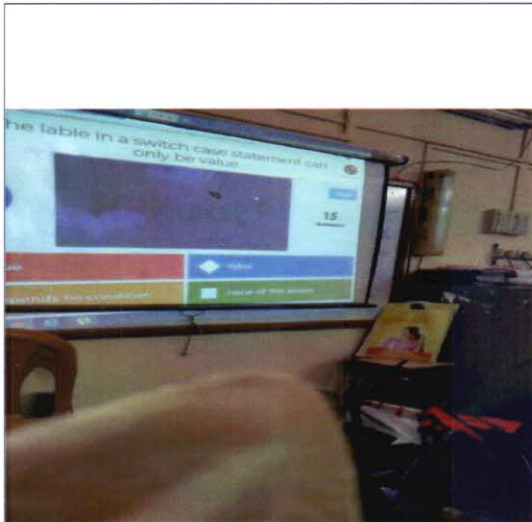
ACTIVITY: ONLINE QUIZ through "KAHOOT"

ACTIVITY REPORT:

To make students aware about basic concepts of Structured Programming Approach

OUT COME:

The students got the experience of different Technical aspects of applying the basic concepts on practical programs.



Handwritten signature: Sana Haji



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A.Y.(2018-19)

Department of Humanities and Applied Sciences

CLASS: First Year of Engineering, Div.-A,C SEMESTER: II

SUBJECT: APPLIED MATHEMATICS-II (FEC201)

FACULTY: S. Bhumadevi

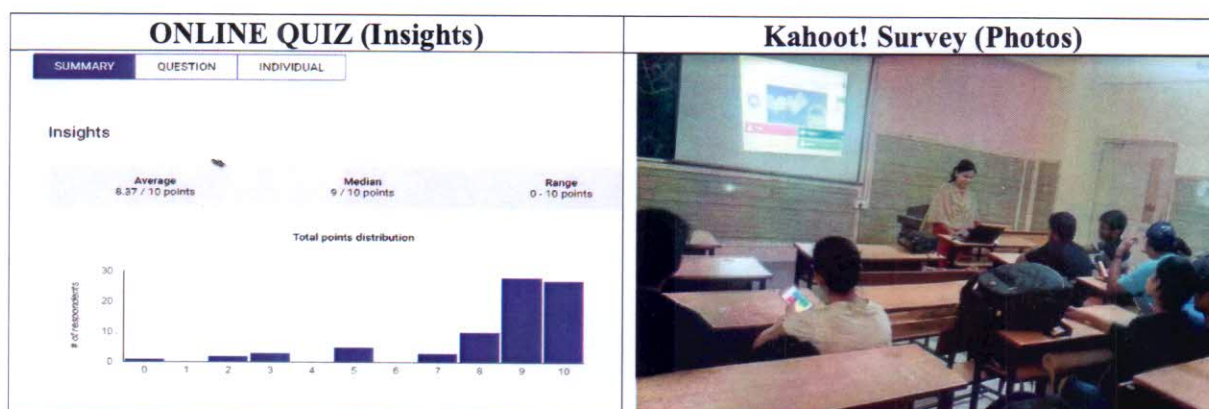
ACTIVITY: ONLINE QUIZ, Course Exit survey through "KAHOOT"

ACTIVITY REPORT:

In the beginning of the semester the students have been undergone ONLINE Quiz for **Prerequisite** and for **Exact and Linear Differential Equations**. At the end of semester the students have been given the experience of KAHOOT for Course Exit Survey.

OUT COME:

The students got the experience of different Technical aspects of Formative Assessments and Survey.



S. Bhumadevi



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A.Y.2018-19

CLASS: First Year of Engineering, Div.-A,B,C, And DSEMESTER: II

SUBJECT: APPLIED PHYSICS-II (FEC202)

ACTIVITY: ONLINE QUIZ (Google Forms)

ACTIVITY REPORT:

Assignment 1 and Assignment 2 have been conducted through ONLINE Quiz.

One Practical has been taken through SCILAB open source software.

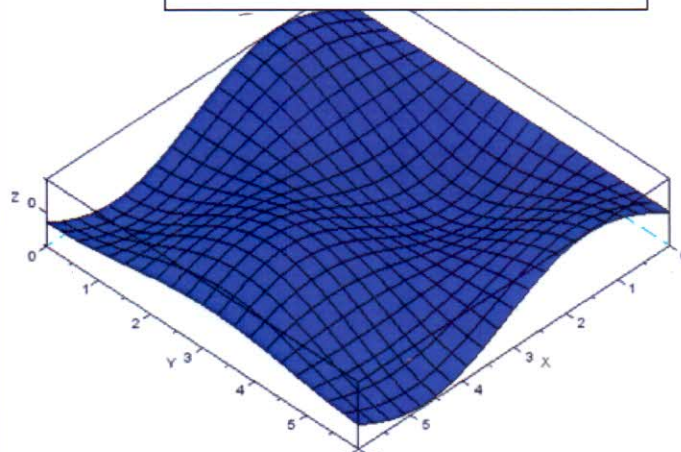
OUT COME:

1. The students got the experience of Technical aspects of Formative Assessments.
2. The students have been encouraged to use Open Source Software (**SciLab**) .

Program: (Three-Dimensional Plot)

```
clc;  
// simple plot using  $z=f(x,y)$   
t=[0:0.3:2*%pi]';  
z=sin(t)*cos(t');  
plot3d(t,t,z)
```

Three-Dimensional Plot



Smchay Neha



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

SEMESTER: I

SUBJECT: APPLIED MATHEMATICS-I (FEC101)

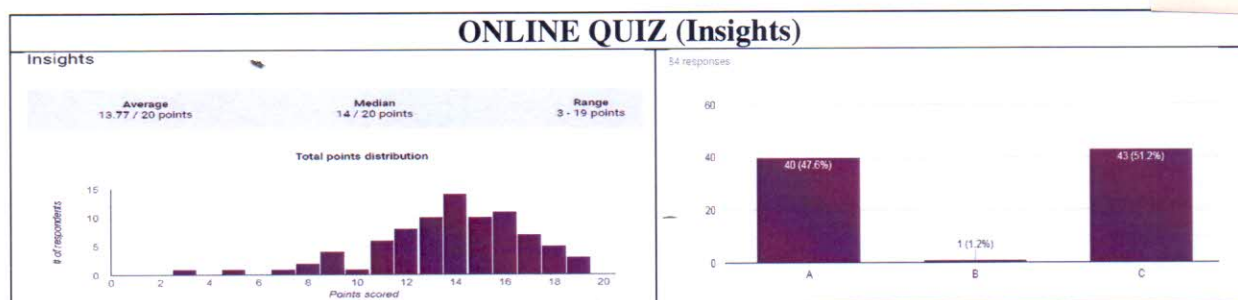
ACTIVITY: ON LINE QUIZ (For Pre-requisite(A,C), For Tutorial(A,B,C,D))

ACTIVITY REPORT:

Academic year 2018-19 has been started with Induction program as a part of it all the first year Engineering students have been revised their previous knowledge through bridge course. After the bridge course of the subject Applied Mathematics students have been sent with link for the online quiz. Students have given their responses through online. In the same way for the tutorial for the chapters Partial differentiation, Maxima and minima, Numerical methods, Jacobians online quiz has been conducted.

OUT COME:

Through the above activity students have revised the concepts and got practice for the ongoing semester topics.



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Department of Humanities and Applied Sciences

Class: F.E. A,C,D

SEMESTER: I

Subject: APPLIED PHYSICS -I (FEC102)

Faculty: Swati Panvelker

Activity: THINK PAIR SHARE (For Crystal Structures)

Activity report:

For the execution of the Activity, students were asked to sit in pairs on one- one bench. Topic(SC, BCC, FCC unit cells) was given to the students. Models of Crystal cubes were given to the students for discussion. Time duration of 30 minutes was given to the students for thinking and writing on one page. Students discussed the given topic with their partner. After the given time one-one pair of students came forward and explained and shared their views based on the topic to the audience. One crystal model was explained by one pair of the students. Involvement of the students was very good.

Outcome:By this activity students understood the topic in various diverse ways.



Smrhan



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CLASS: F.E. A,B

SEMESTER: I

SUBJECT: APPLIED CHEMISTRY-I (FEC103)

FACULTY NAME: Dr. Shelley Oberoi

ACTIVITY: FLIP CLASS ROOM (For Polymers and Nano-Technology)

ACTIVITY REPORT:

The animated video lectures of Transfer moulding, Injection moulding and Nanotechnology were discussed in class for better understanding of concepts. Next day subject teacher brought a set of questions for discussion with the students and cleared their doubts.

OUT COME:

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

Links for topics like polymers and Nano –Technology:

1. <https://youtu.be/wCMUCFXA.Vo> (Transfer Moulding)
2. <https://youtu.be/b1U9W4iNDiQ> (Injection Moulding)
3. <https://youtu.be/dQhhcgn8YZo> (Nanotechnology)

Carrr



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CLASS:F.E.

SEMESTER-I

SUBJECT: BASIC ELECTRICAL ENGINEERING (FEC105)

ACTIVITY: ONLINE QUIZ(Bridge Course, Assignment)

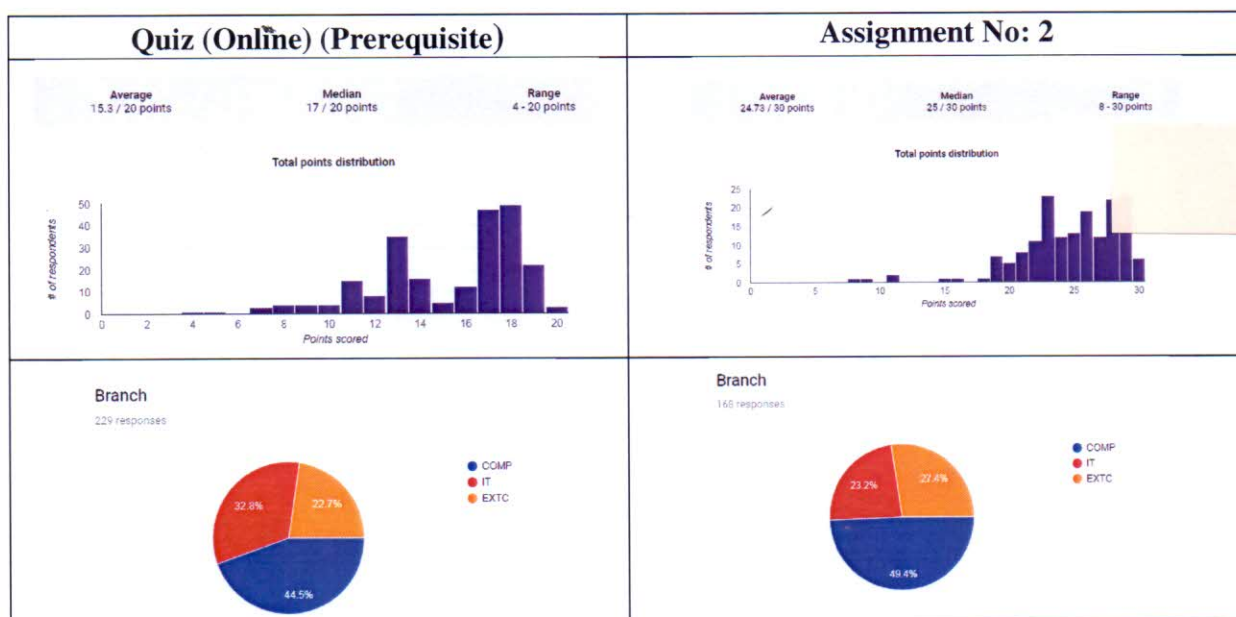
ACTIVITY REPORT:

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, for the students online line quiz has been conducted.

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

OUTCOME:

Through the above activity students recalled the concepts and one formative assessment also has been done.



Neha



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

SEMESTER: I

Subject: Environmental Studies (FEC106)

Faculty: Ms. kshipra N.

Activity: Field trip to Karnala fort & bird sanctuary, Paper Bag Making (Wealth from Waste)

Activity report:

For the execution of the Activity, the First Year students were taken to a field trip to Karnala Fort and Bird Sanctuary. The students learned different types of Plants which are found in our environment and also observed the migratory birds during that period. Along with this study, the students collected waste plastics in the area as a part of Green Initiative. As a part of experiential learning, the students were taught how to make Paper bags out of old newspaper. Active participation was very good from the students' side.

Outcome:

Apart from the syllabus, the students learned about the plants and Migratory Birds, and how to use the gained knowledge to maintain and recycle the waste papers.



Kshipra