

Due to closure of college because of Corona Virus outbreak, President has instructed us to shift to online mode of teaching. Principal had made arrangements through the Systems team headed by Dr.S.V.Albal, to educate all faculty on usage of online mode. Since this decision had to be taken after the closure of college, the demo also had to be done online!.



Dr.Aravindan Chandrabose took up the challenge and successfully educated all faculty by mail and by two trial demo runs on how to use Zoom software platform for conducting online classes. Many have started using these online classes option.

Racing Against Time....

March 24 Principal and President suggest Online classes.

March 24 Dr. S.V.Albal and Dr.Aravindan Chandrabose set out procedures to use Zoom app.

March 24 (at 9 pm) Dr.Aravindan Chandrabose sets up first trial session and

March 25 (at 10.30 am) Dr.Aravindan Chandrabose sets up Second trial session

Same day, faculty announce their sessions to students and from next day,

March 26th onwards, faculty start using the zoom facility to conduct online classes.

What mech team did and how they felt—unwrapped in the following pages...

- Tech Savvy youngsters adopted quickly.
- Those with kids around (who do not allow laptop usage during daytime),
- Those who had their laptop out of condition and
- Those who could not locate their head set etc,

resorted to remote access Learning Management System (LMS) which was accessible through internet.

Experience by Mech team handling First year subjects

Mr. D.Ebenezer reports..

I had zoom class today (March 26) for 2nd sem Chemical students on basic Mechanical Engineering for about 45 mins. 56 students attended.

Some of the students were going out and coming in and when asked they said, their network is not supporting (may be due to a surge in load - my children also had zoom classes from their school). They all asked for classes for the same timings tomorrow. 3.00 pm

Will conduct a class for PG-Energy in the morning.



Dr.K.L.Harikrishna reports....



Myself and Dr. G. Satheesh Kumar conducted Online Introduction class (Trial run) for the subject Engg. Mechanics on 27.03.2020 for First year A and B section.

The next class was conducted on 30.03.2020 at 10.00AM.

For A Section - Dr. KLH and For B Section - Dr. GSK

Dr.K.Rajkumar Reports..



Today (March 31), I conducted a Basic Mech course through zoom class online teaching for II SEM BME students.

The total turnout is 56 students out of 61.

It is a good experience and it was possible to record session attendance using Chat option.

Thermal Team experience

Prof. N.Nallusamy reports..

Details of online classes handled by me is given below.
 Class: M.E. Energy Engineering - 2nd semester
 1. Lecture topic: Introduction to Data Acquisition Systems
 Date: 27-03-2020 and time: 11.30 AM
 2. Lecture topic: Multi Channel Data Acquisition Systems
 Date: 30-03-2020 and time: 11.00 AM



Dr. S. Rajkumar reports..

Yesterday and today (March 27 & 28), I conducted zoom sessions for an hour. Around 52 students participated in these sessions.

UME1403 Thermal Engineering, for IV sem mech, Refrigeration & air conditioning.

I talked about Refrigeration and Air conditioning (V unit).

We can mute all the participants with the option of "allow to unmute participants themselves". So they can unmute themselves and talk to the lecturer if they have any doubts.

I have already planned for more sessions as per the class time table to complete the V unit and informed the students. It was quite a new experience for me. Kudos to the technology.



S. No.	Date	Session Timing	Portions Covered
1	27.03.20	9.00 AM to 10.00 AM	Trial class on Zoom app. Explained the methods, features, options and procedures etc .
2	28.03.20	9.00 AM to 10.30 AM	1. Introduction to Refrigeration and air-conditioning 2. Different types of refrigeration systems – VCRS and VARS. 3. Different types of air-conditioning systems
3	30.03.20	9.00 AM to 10.10 AM	1. Detailed thermodynamic analysis of Vapor compression refrigeration cycle, T-s and p-h diagrams 2. Performance improvement of VCR cycle in terms of super heating and sub-cooling
4	31.03.20	9.00 AM to 10.15 AM	Solved Problems on Vapor compression refrigeration cycle using refrigeration tables and charts

Dr.N.Lakshmi Narasimhan reports..



My PG Energy - I year classes had begun from Yesterday. As usual absentees were there for the e-classes too !! We can't help it !!

I am scheduling the classes as per my students convenience only, though I wanted TT schedule to be followed. Anyway, classes are happening.

That sounds interesting and thanks zoom for extending my lectures beyond 40 mins for the day and tomorrow.

Dr.M.Suresh reports...

I could not attempt online classes . But decided to upload video lectures in our usual LMS.

I used a white Board (available at home) to write down the equations, and then started explaining in video mode, focusing on the white board containing the equations.

I also asked students to give feedback.



Message sent on Fri, Mar 27, 2020 at 12:17 pm and responses started coming from 1.05 pm onwards.-----VeA

Suresh's message:

Dear Students,

I have tried a video lecture on radiation shields. It is an 8-minute video.

Go through this video and try to understand the concept. I will try to improve the video in my next lecture (Bottom portion of the white board is not visible; still you can understand it).

You will find some minor mistakes in the lecture. It will not prevent in understanding the concept.

Every one of you must give your feedback whether to continue this type of lecture or not. You can suggest improvements.

You can send your suggestions to my email address or to my mobile number: 9176616955.

Student's Response

----- Forwarded message -----

From: **Sai Prashanth** <sai17085@mech.ssn.edu.in> (responded by 1.09 pm)

Excellent Sir. Both the audio and video quality are good. This can be continued for the remaining portions also.

From: **Shailesh Kumar** <shailesh17090@mech.ssn.edu.in> (responded by 1.05 pm)

Dear Sir,

Really helpful content, the video is also okay. Thank you.

Dr.A.S.Ramana reports..



"Zoom" online discussion on Energy Efficient Buildings was initiated with ME Energy Engineering and Doctoral Students during March 2020 college closure days.

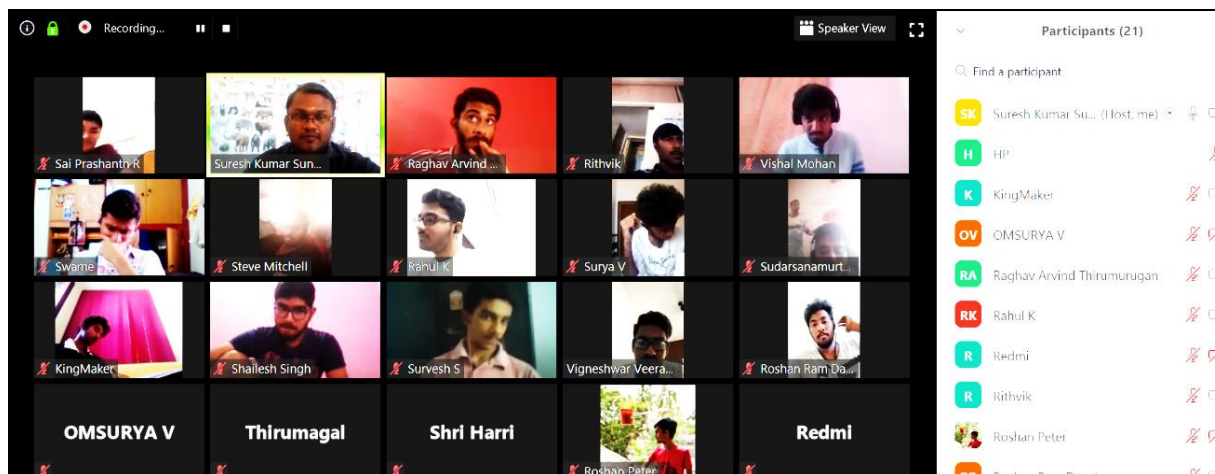
First session was on 30.3.2020 at 5 pm. Students have agreed for classes every alternate day. Students are keen & active to learn and share technical hints on energy efficiency improvements. April First class is scheduled at 9 a.m.

Design Team experience Dr.S.Sureshkumar reports..

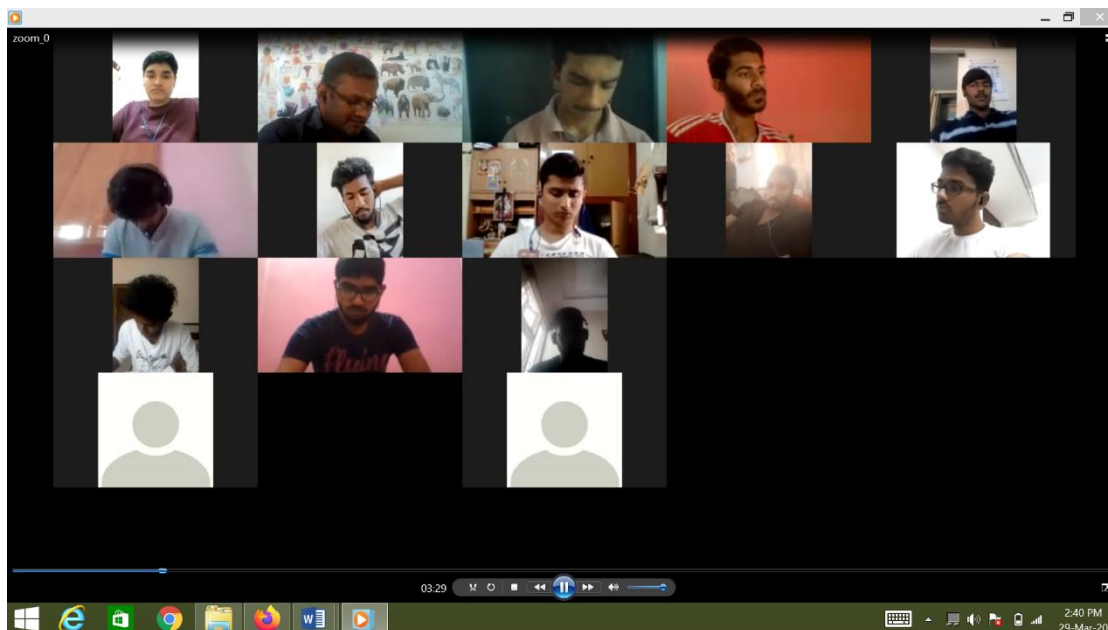
From 26th to 28th March 2020, **Dr.S.Suresh Kumar** has conducted online sessions for third year Mechanical 'B' section students for the course **Finite Element Analysis (ME8692)**. **Zoom app** was used to communicate with the students effectively.



Around 20 to 25 students participated every day and the students were able to clarify their doubts. The portions (second part of 5th unit) which were not covered before the curfew was taught to the students. One trial class was arranged to the students in order to familiarize the options available in the zoom network. Thanks to **Professor Aravindan Chandrabose** who has introduced and helped us to use this network app.



Snapshot for day -2 class (27-03-2020, Friday)



Snapshot for day - 3 class (28-03-2020, Saturday)

The online course has been planned till April 4th, 2020 in order to complete unit-5 and to cover the left out portions from previous units if any.

Dr.M.S.Alphin reports..

I attended trial class at 9 PM on March 24. Of course this will be useful.



Dynamics online classes are going on well.

Class: IV sem B section

Topic: Dynamics Balancing Lecture

Time: Mar 30, 2020 08:00 AM India

Topic: Dynamic Balancing

Time: Mar 31, 2020 08:00 AM India

Yes of-course we can write in white board in zoom tool for the lecture.

Also easy to project video, explain using hand gestures, write derivations, show ppt etc.

The students also interact well.

As said by SRK, good number of students attend the sessions

I have given **online assignments** (10 marks) for Dynamics to scan their drawing sheet and submit using LMS.

MSA

Manufacturing Team experience

Dr.M. Dhananchezian reports...

Dear sir / Upto 31 st March, as per my subject time table, I have 3 classes for 2 year IV sem A section.

Out of 3 three classes I have completed two with the following information.

1. 26.3.20 11.30 AM - Unit-IV - Broach machines - Introduction, Principle, Broach construction, Broach materials - **59 were present out of 69.**
2. 27.3.20 8.00 AM - Methods of broaching, Types of broaching machining - pull, push, surface and continuous - **43 were present out of 69.**
3. 30.3.20 10.00 - 10.40 AM - NC machine tool - introduction, components, NC co-ordinate system. **Present 44 / 69.**



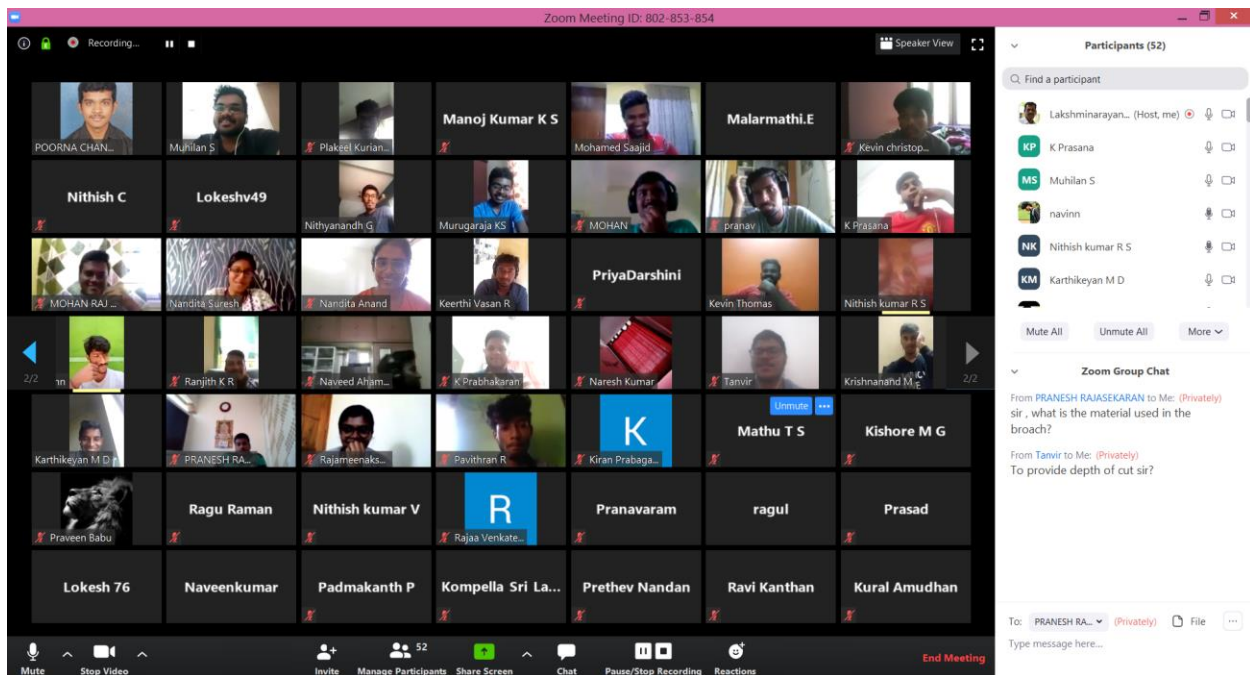
Dr.A.K.Lakshminarayanan reports..

UME 1402 Manufacturing Processes – II - Mechanical B section

The online sessions were highly interactive. I used mute all options and asked the students to unmute themselves if there is any need.

It is important note that I am able to conduct a particular session for 90 mins (10.00 to 11.30 am) on 27th March.

I am able to share the ppt merged with demonstration videos. The entire session was video recorded.



No	Date	Time	Syllabus to be covered	Duration	No. of Participants (out of 64)
1	26 th March	11.30 AM	Trial session with students	30 mins	42
2	27 th March	10.00 AM	Precision Grinding Machines	90 mins	53
3	30 th March	10.40 AM	Broaching machines	73 mins	53
4	31 st March	02.00 PM	Numerical Control machine tools	60 mins	scheduled

Dr.K.Babu reports..

Today (March 26), at 10 am, I taught Replacement Model for **final year students**. 14/21 students were present. It was a good experience.

Few learnings I would like to share with you:

1. All of you must use a headset.
2. You can share ppt by sharing your screen and use powerpoint pointer.
3. Plz ask the students to join with their microphone muted. Otherwise, you hear a lot of noise. Whenever they need a clarification, they can always unmute and ask you.



Dr.K.S.Vijaysekar reports....

I conducted my first 'Finite Element Analysis' review class today (March 30th) at 10 am for **VI A class**

Thankfully I had finished my syllabus before this unscheduled break and was pleasantly happy and surprised to see 43 students attend the session.



I used a headset on my laptop and it worked wonderfully well with each student able to hear my audio and video as well. From tomorrow onwards I am going to engage them for 40 minute every day at 11 am to cover all 5 units. I had a great rewarding experience. Thanks to Zoom for the seamless interface and many thanks to the SSN management for initiating this process through Dr Albal and to Dr Aravindan for sharing his tips on how to use Zoom. Looking eagerly forward to tomorrow's session. Please try your sessions, you will be enriched by the outcome.

Dr.Vimal Sam Singh reports..



Zoom sessions on Product Design and Development

Class: – **II Year students**

Session 1 Date: 26-03-2020, Duration: 8.00 am to 9.30 am

Session 2 Date: 30-3-2020, Duration: 2.30. pm to 3.30 pm

Additional Online Learning Resources

Info from AICTE

Hope you are well. You must be eagerly waiting to do something exciting while staying at home, we want to help students to continue their learning from home for Free of Cost using NEAT Platform.

National Educational Alliance for Technology (NEAT) is a Public-Private Partnership formed between AICTE and the Education Technology Companies of India. NEAT facilitates enhancement of the employability skills among students by collaborating with Education Technology Companies.

Due to COVID-19 virus, all the classes are suspended. This will have challenges in completion of the curriculum by faculties and exam preparation for students.

As all products of NEAT portal are Artificial Intelligence based and personalized learning features. This portal will help students to continue their studies from home.

In this regard, **Our Ed-tech partners of NEAT came forward to waive off the subscription charges** for the benefits of students of its products as listed below (All are NEAT shortlisted products) to all students who are registering under NEAT program.

1. Infoplus Technology (p) Ltd

Product: LearnEngg URL: https://neat.aicte-india.org/course-details/NEAT201969_PROD_3

Visual-Rich Digital Content with 3D/2D Visual for Self-Learning and Teaching Aid Enhanced Learning Experience. LearnEngg has Developed Visual Learning Solutions for theory subjects (Engineering and polytechnic), where in each subject containing 400 to 600 pages of text & over 200 3D/2D Animation that are embedded throughout the lecture notes and solved tutorial problems. Self-assessments are provided for each chapter.

2. Perfectice Eduventure (p) Ltd

(a) Product Name - Career Path Navigator

URL: https://neat.aicte-india.org/course-details/NEAT2019175_PROD_12

About Product: It assess the students skill level through Diagnostic assessment and then navigate them through Gamification modules to upskill their coding, core & cognitive skills.

(b) Product Name - Job Readiness (Company Specific Mock and Preparation)

URL: https://neat.aicte-india.org/course-details/NEAT2019175_PROD_14

About Product: Its final touch series package for students to get aware about company's recruitment process, screening rounds & interview prep as well.

3. Amphisoft Technologies

(a) Product Name: Ebox

URL: https://neat.aicte-india.org/course-details/NEAT2019131_PROD_5

About Product: Ebox offers the prestigious AI driven and Tech enabled Computer Science Engineering Program at free of cost for one month.

This program, as used by many top MNCs, gives the learner a personalised tech skilling on 40 courses, 15 internships and 8 projects.

(b) Product Name: Talent Rank

URL: https://neat.aicte-india.org/course-details/NEAT2019131_PROD_6

Talentrank, portal used by MNCs to identify fresh skilled graduates, offers AI driven and Tech enabled Assessments and Certifications at free of cost for one month.

Enrol today and be a part of India's largest skill certified freshers marketplace.

4. English Helper

Product Name: English Bolo

URL: https://neat.aicte-india.org/course-details/NEAT2019295_PROD_2

In this spirit, EnglishBolo™ is offering the first 25 days of learning, free of cost to all NEAT registered students.

EnglishBolo™ is a 100 days, online Spoken English program. It offers multi-sensory AI technology powered 100 Self- Learning lessons and 10 live, online teacher classes. Youth and adults from all walks of life, from across the country are learning to speak English with EnglishBolo™. This is an opportunity for you to join them and improve your English!

It is also requested to upload this information on your website and share with the teaching and students via email and other social media.

For any further details write to neatsupport@aicte-india.org

PFA:-

https://drive.google.com/file/d/1KlyKH9VN_g_f-Zxi6jKVY8qE7ur3FbqFp/view?usp=sharing

https://drive.google.com/file/d/1p2fr50M-kAz6TOWbEfi6M2Jv0fhyMD_D/view?usp=sharing

https://drive.google.com/file/d/1sHAGN-MroHQmlz0_AOstC8UEGFxDVhpE/view?usp=sharing

<https://drive.google.com/file/d/1mRb2Tr6iJhKdr6RtJmfFcwLM5CYXYDS/view?usp=sharing>

https://drive.google.com/file/d/15flzxQmVa-Zxg0VO_7YzxpH9wOCRja9S/view?usp=sharing

Pl use these online resources and utilize your time available.-----VeA