



**CHILDREN'S EDUCATION SOCIETY (Regd.)
THE OXFORD COLLEGE OF ENGINEERING**

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Approved by A.I.C.T.E. New Delhi.

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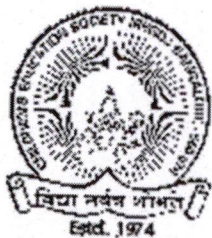
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**Photographs on professional development training programmes /administrative training
programmes organized for Teaching Staff & Non-teaching Staff**

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING

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Website: www.theoxford.edu Email : enghodeee@theoxford.edu

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& Affiliated to VTU, Belgaum)

Three Day Workshop on
"RENEWABLE ENERGY & GRID INTEGRATION
CHALLENGES AND ISSUES"

20th April 2017 to 22nd April 2017



Organized By

DEPARTMENT OF EEE , In Association with ISTE Students Chapter

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MS Office Training 05.04.2017





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House Keeping Awareness Program 18/03/2017





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ISE Internet of Things Workshop 10-11-2017 to 11-11-2017



Hands-on workshop on "INTERNET OF THINGS".



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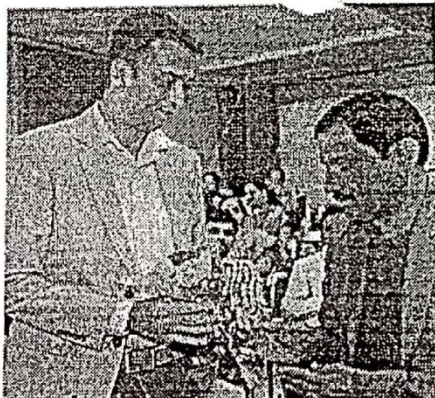
Two days FDP on know your Intellectual Property Rights in association with DST-TYPHAC, Government of India, KSCST and VTU, Karnataka 28-12-17 to 29-12-17



Inauguration



Felicitations of the guest



Welcoming the guests





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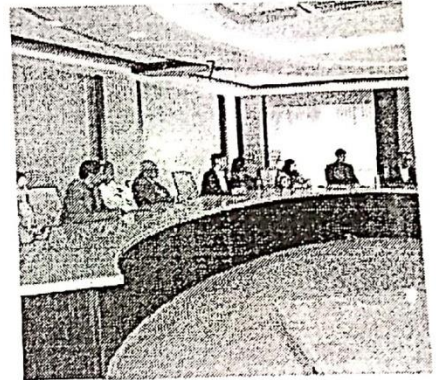
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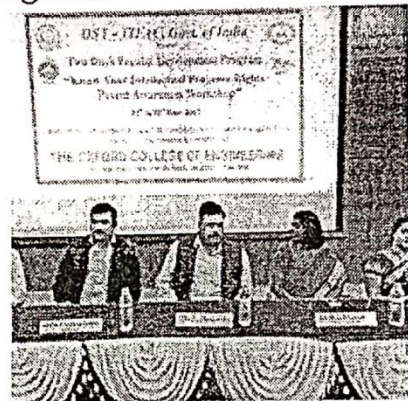
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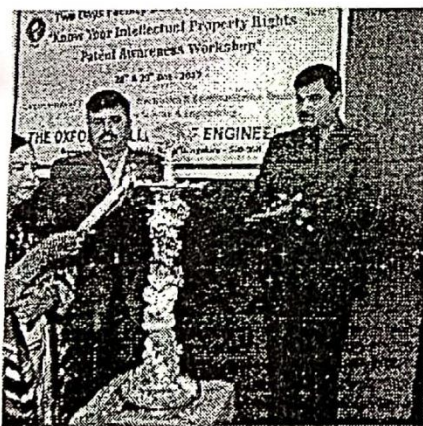


Welcoming the dignitaries

Interaction of the principle and head of department's with the dignitaries



Dignitaries on the dais



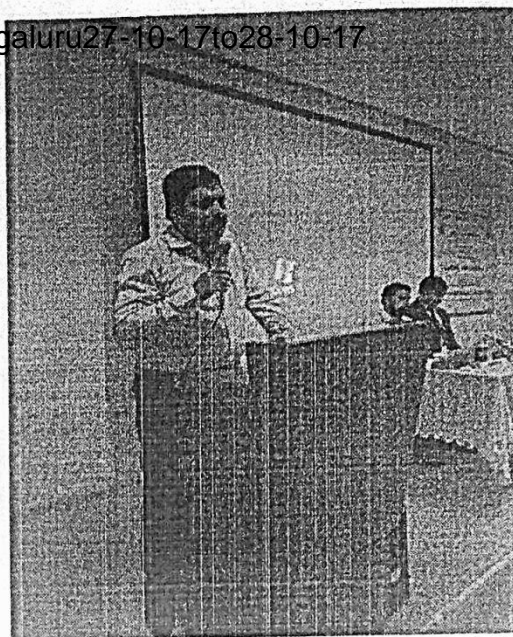
Inauguration

The Workshop ended with conclusions and career in genomics by the professionals and the staff members, collection of opinions from the students and most importantly, distribution of Certificates of Completion for all the participants.

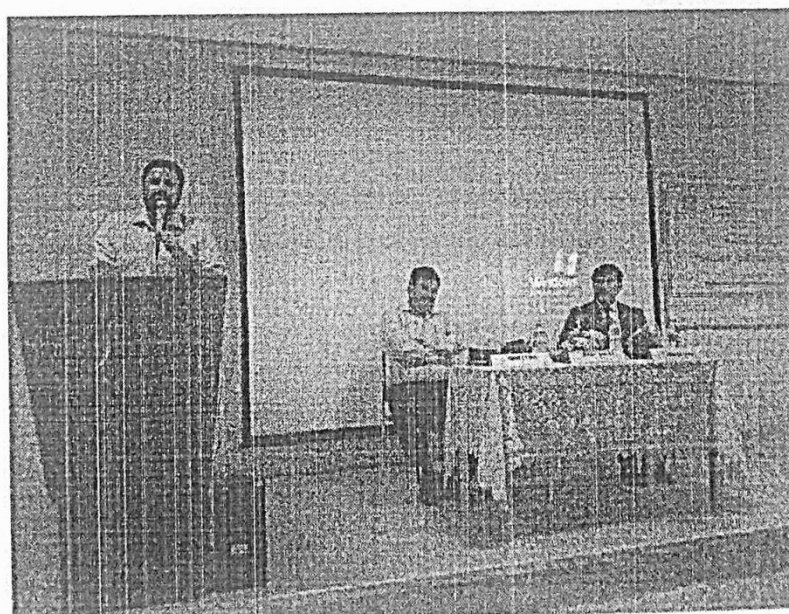
Workshop on Genomic Informatics sponsored by Bionivid Pvt. Ltd., Bengaluru 27-10-17 to 28-10-17



Inaugural function of Workshop



Director addressing on Workshop



Key note talk by the guest



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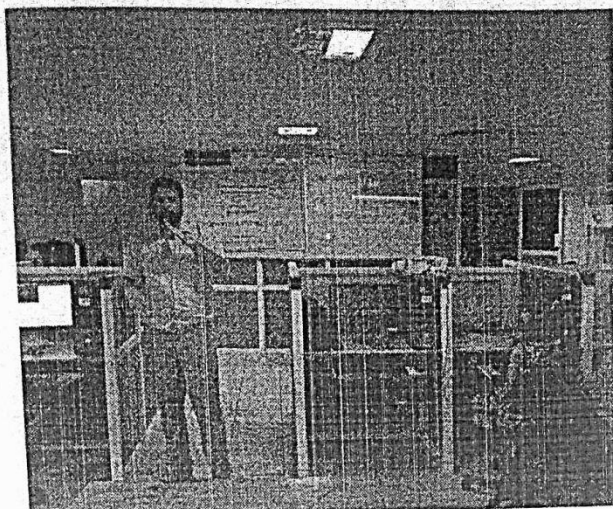
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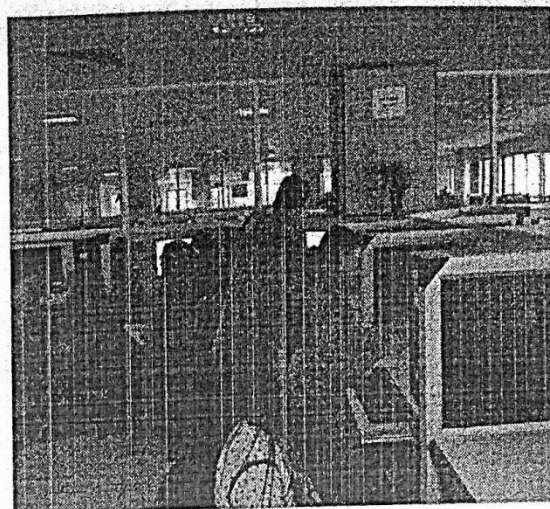
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Hands on training on Genomic
Informatics



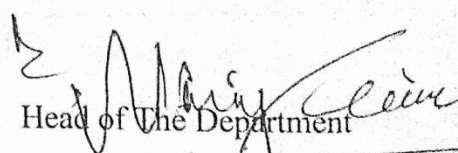
Hands on training on NGS data



Certification Distribution



Valedictory function


Head of The Department

Dr. B.K. MANJUNATHA, M.Sc., Ph.D
Professor

Department of Bio-Technology
The Oxford College of Engineering
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ADMETConferencePhotosBT2017_18

4-04-18to5-04-18



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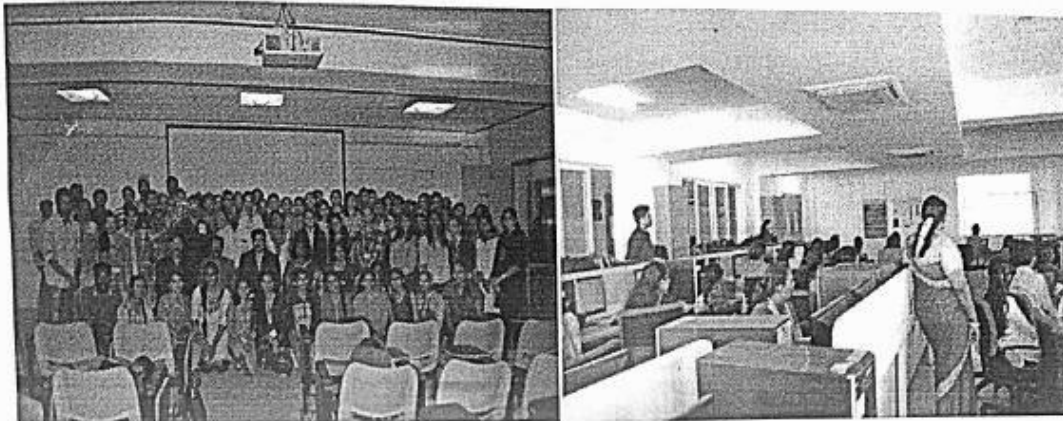
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ADMETConferencePhotosBT2017_18



Hands on training

Head of the Department
Dr. B.K. MANJUNATHA
Professor & Head
Department of Biotechnology
The Oxford College of Engineering
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Children's Education Society®

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DEPARTMENT OF AUTOMOBILE ENGINEERING

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AICTE Sponsored Two Weeks Faculty Development Programme "WORLD CLASS NEW PRODUCT DESIGN AND MANUFACTURING" IN THE YEAR 2017-18 (1-13 January 2018)



Banner of The FDP



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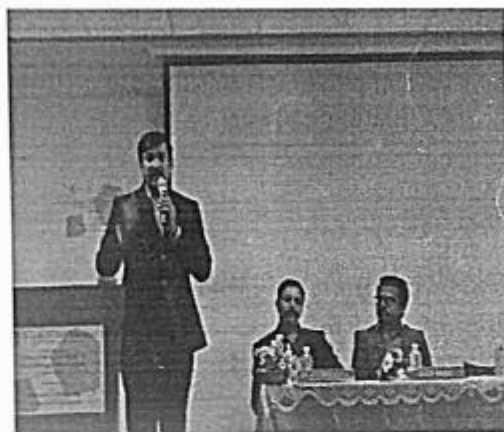
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Inaugural function of Workshop



Principal addressing on Workshop



Key note talk by the guest





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InauguralFunction



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Typing Skills-Learn typing with shortcut keys





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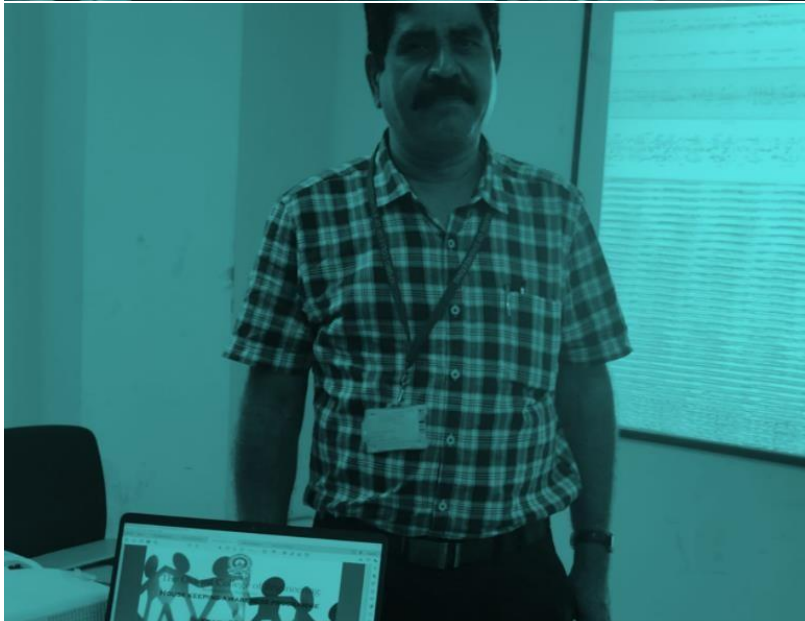
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Hygiene, Quality and Cleanliness in Mess and Canteen 15-03-2018





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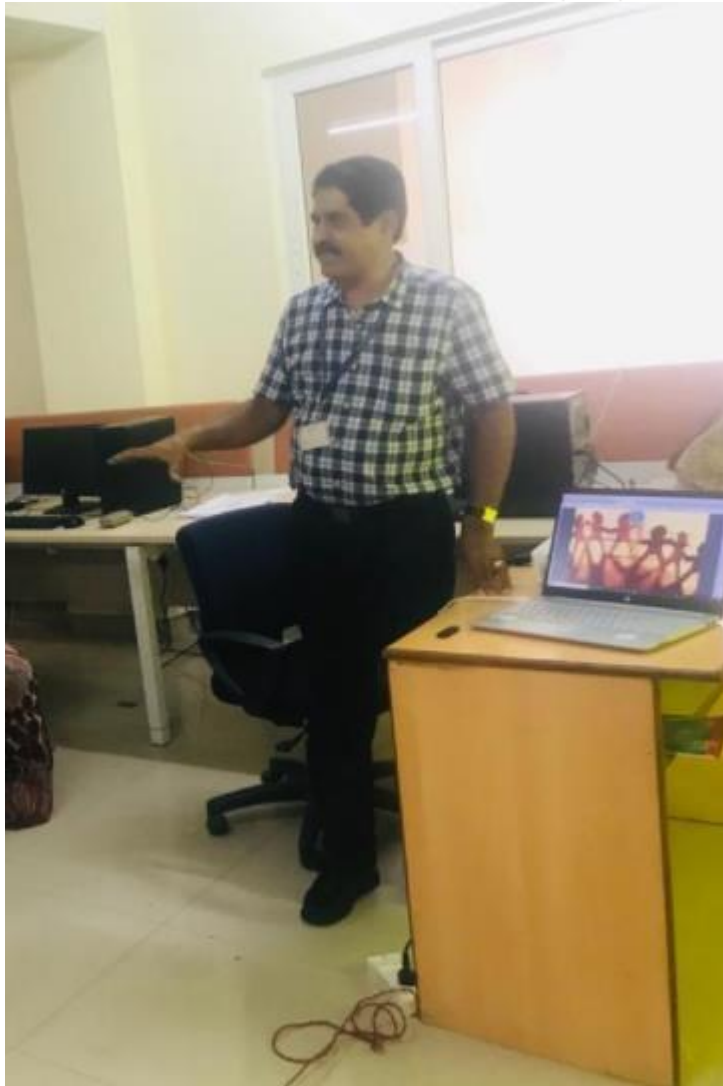
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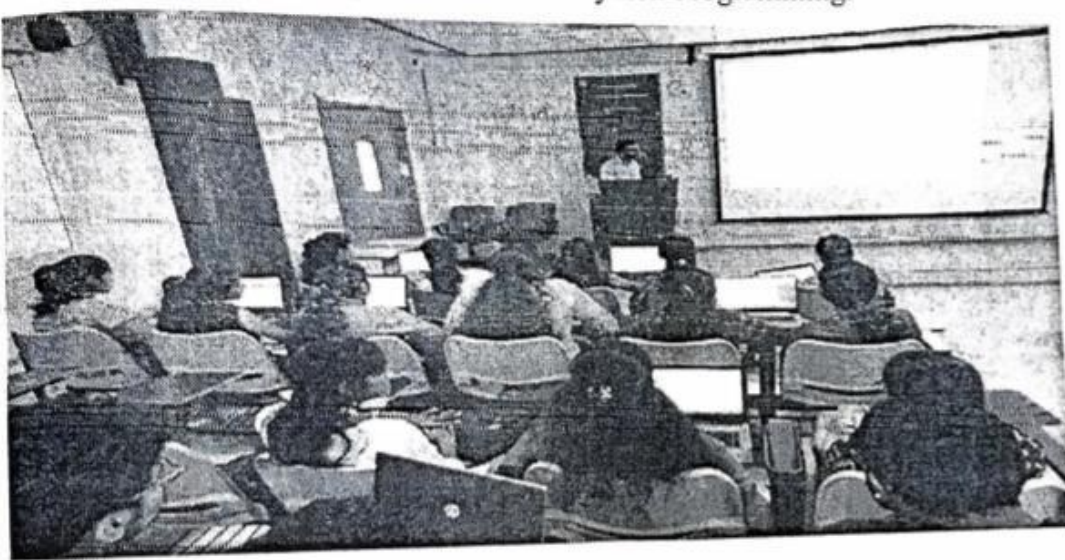
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ISE Python and Machine Learning Workshop 14-03-2019 to 15/03/2019

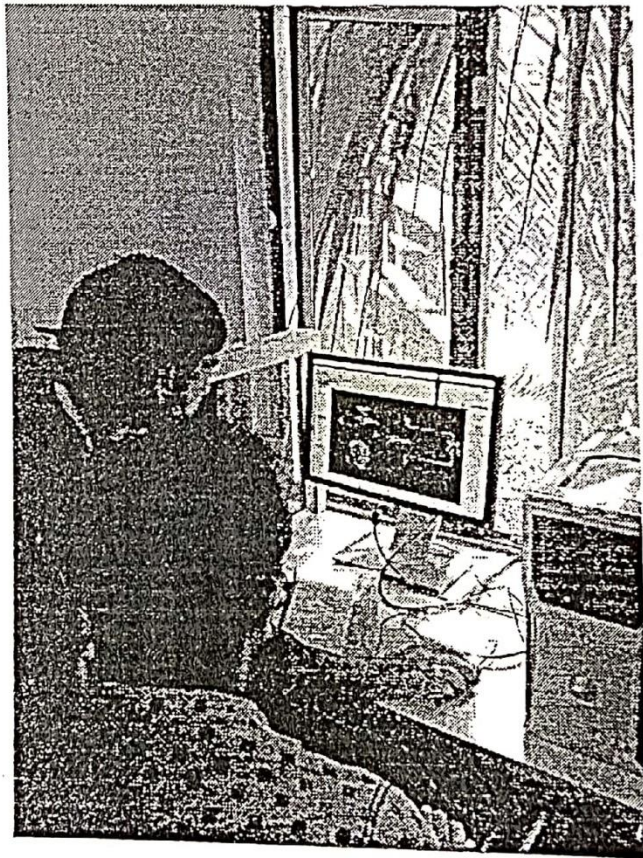


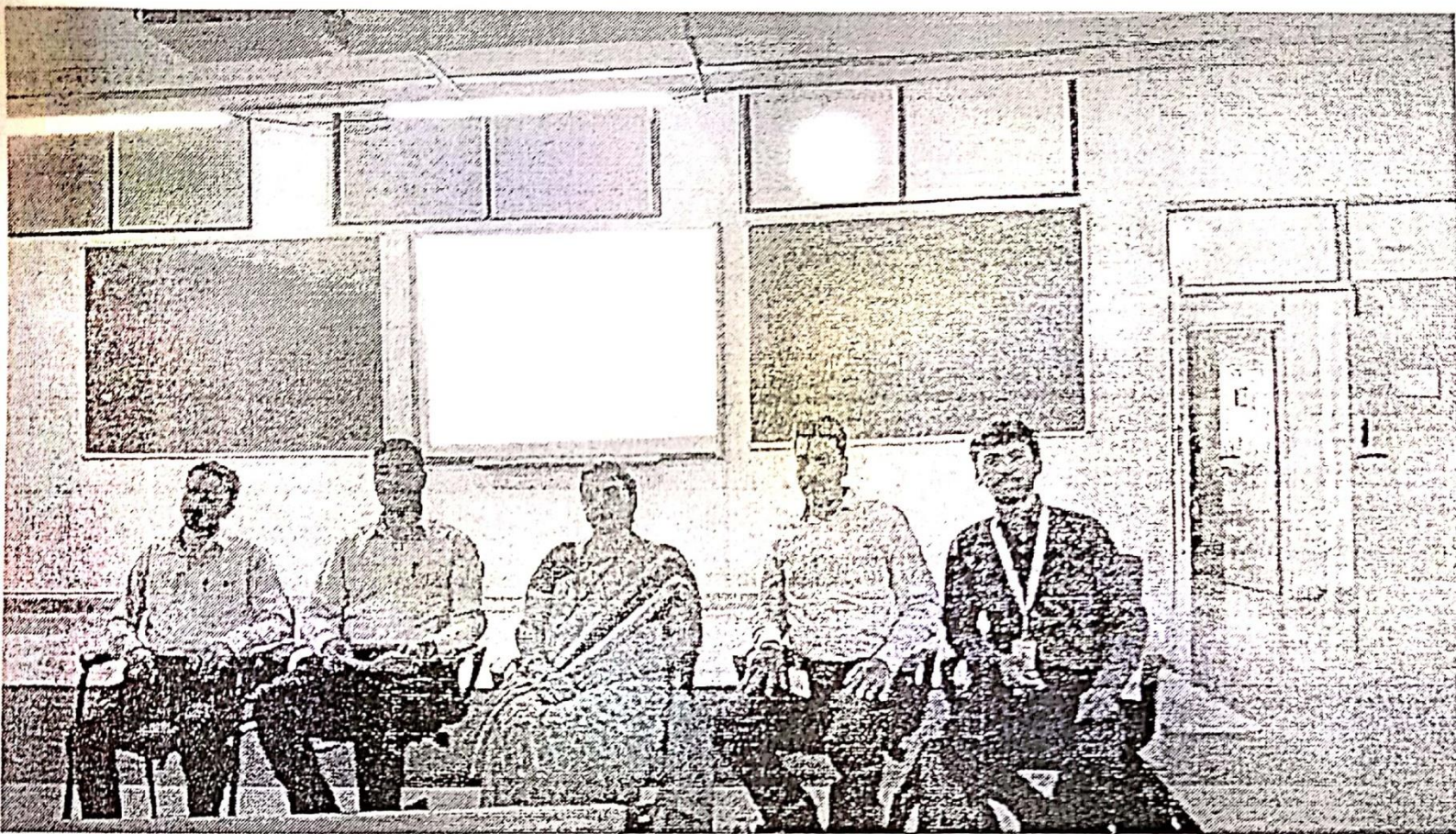
Hands-On Session

In the preceding session, students were introduced to the Xilinx Vivado and Mentor Graphics.
Workshop on Mentor Graphics & Xilinx (ECE) 15-03-2019

We the students were given the opportunity to work on the Redhat under the guidance of Mr. Vijendra.

Henceforth we were able to build a CMOS Inverter and plot its transfer characteristics making the concept user-friendly.







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Time Management Skills04.12.2018





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Electrician, plumber & gardner awareness

15-03-2019





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Discipline awareness program for college security people 19/04/2019





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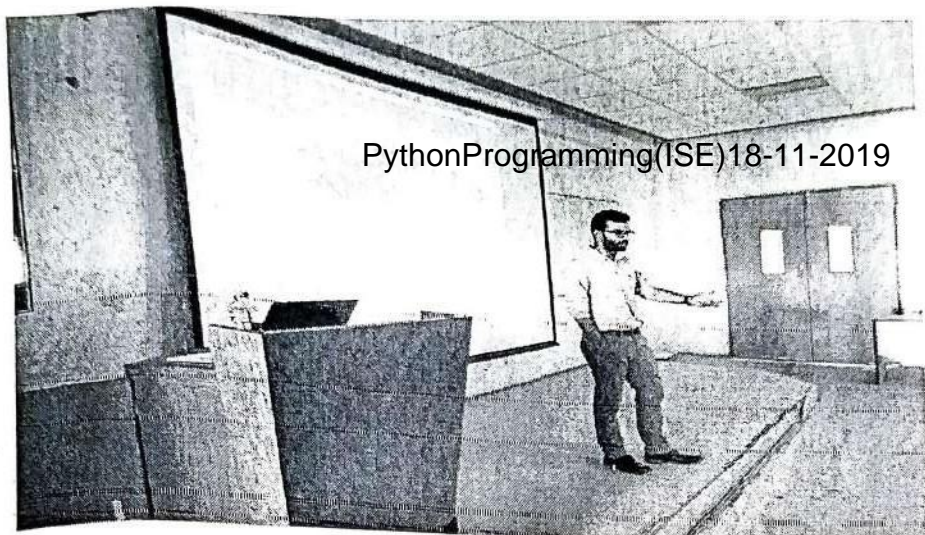
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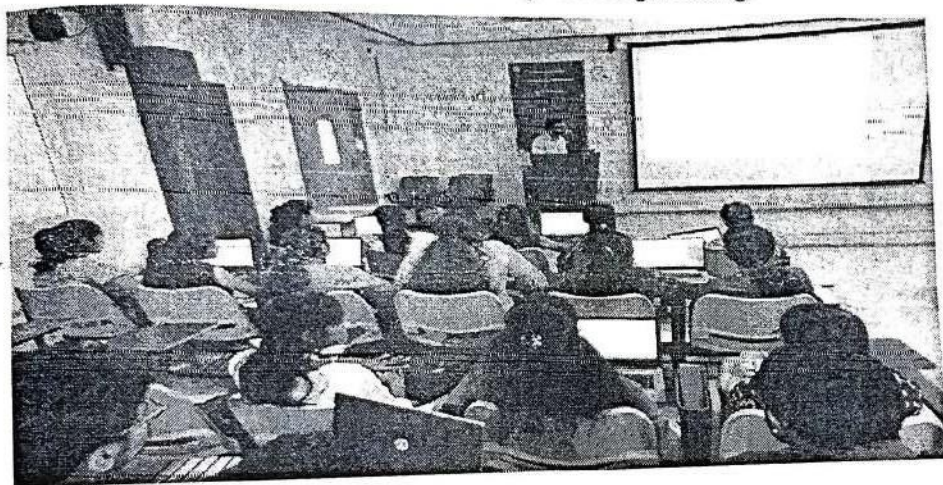
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Mr. Akash Gautam giving introduction to Python Programming.



Hands on session on Python Programming



Presenting Token of gratitude to Mr. Akash Gautham

A. h. Jemall.
Dr. R. KANAKAVALLI
 PROFESSOR & HOD
 The Oxford School
 Bommanahalli
 Bangalore



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Balancing personal and Professional

life03/10/2019





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Training in Internet surfing 07.01.2020





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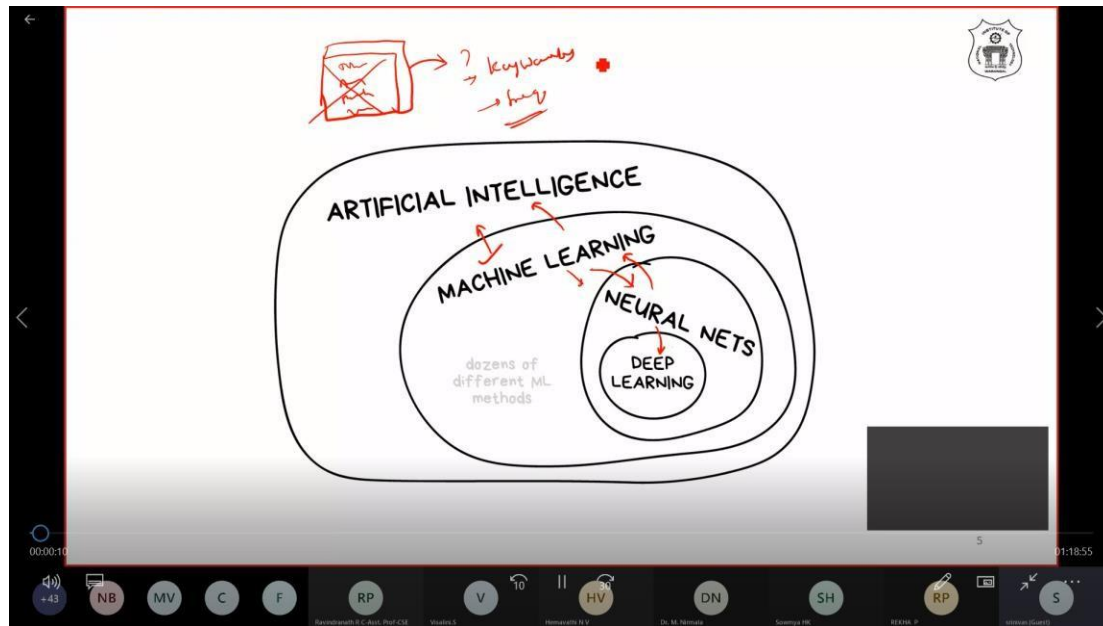
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CSEFDP Introduction to ML and Applications Spe

aker: DR. M. Srinivas

Date: 26-7-21 FN



Ensemble Learning

Speaker: DR. Ramalingasamy

Cheruku Date: 26-7-21 AN



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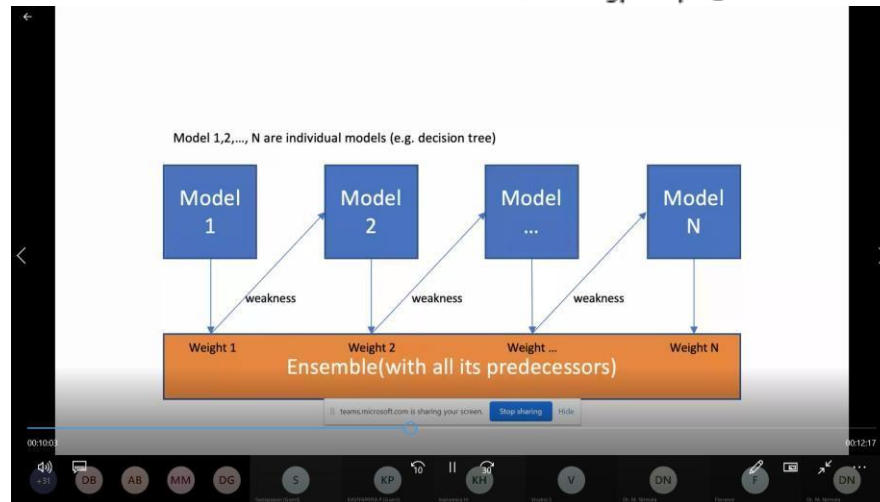
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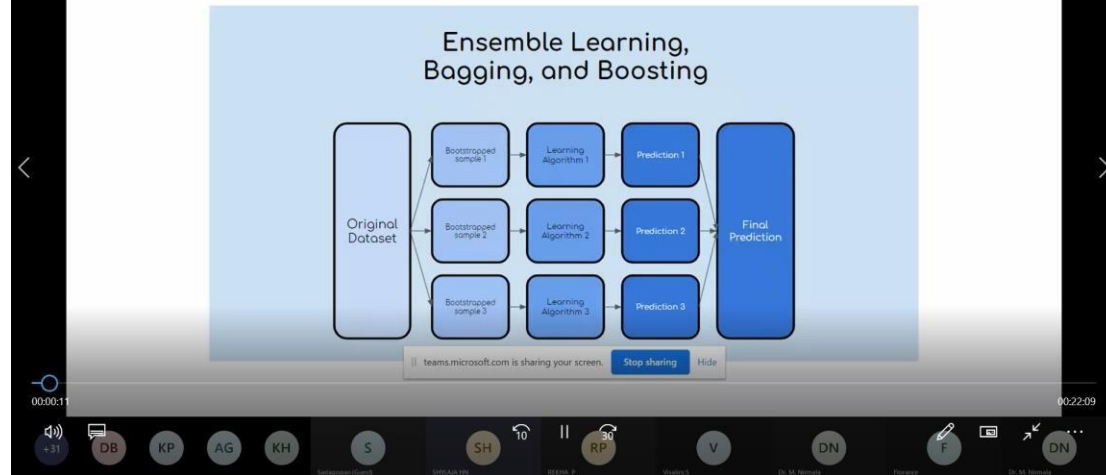
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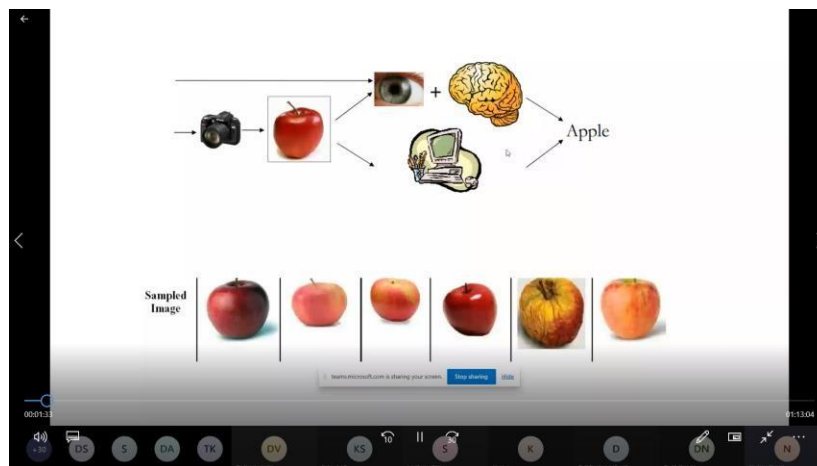
Bagging



Object identification using Machine Learning

Speaker: DR. Neelima

Date: 27-7-21 FN



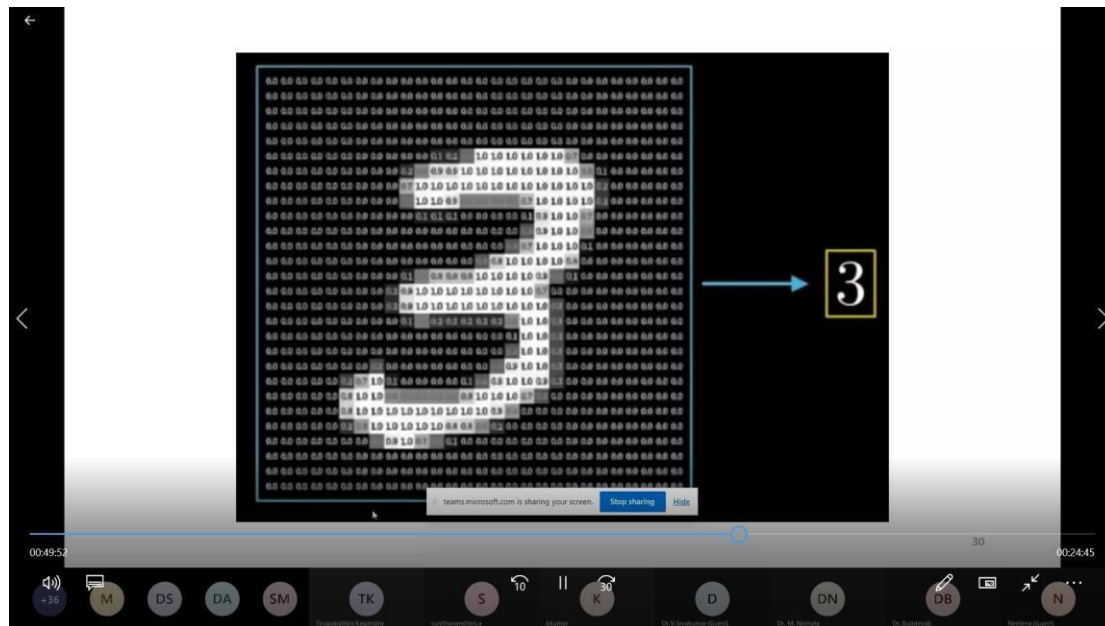
RecentTrendsInAI



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Speaker: DR. Vimal Kumar MD

ate: 27-7-21 AN



The role of Machine Learning in Cyber Security

Speaker: DR. Mahendra Pratap Singh

Date: 28-7-21 FN

The future of cyber security is not about man OR machine it is about man AND machine. In chess, a team of amateurs operating even standard desktop PCs dramatically outperforms both the strongest human players and the most powerful supercomputers in isolation. The secret to actionable threat intelligence lies in playing to the individual strengths of machines and human analysts. Machines perform the heavy lifting data aggregation, pattern recognition, etc. and provide a manageable number of actionable insights. From there, human analysts make decisions on how to act. One of the biggest barriers to human intelligence is language. With modern natural language processing, machines can process text irrespective of language, including slang and industry jargon. The battle in threat intelligence is balancing time and context. Analysts need intelligence promptly, but they also need enough information to make a decision on how to act. This is only possible using modern AI and machine-learning processes. Specifically, AI encompasses any case where a machine is designed to complete tasks which, if done by a human, would require intelligence.



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DecisionTress andEnsembleLearning



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Speaker:

DR.KadambariDate: 28-

7-21 AN

Ensemble methods, which combines several decision trees to produce better predictive performance than utilizing a single decision tree. The main principle behind the ensemble model is that a group of weak learners come together to form a strong learner. Bagging or Bootstrap Aggregation is used when our goal is to reduce the variance of a decision tree. Here idea is to create several subsets of data from training sample chosen randomly with replacement. Now, each collection of subset data is used to train their decision trees. As a result, we end up with an ensemble of different models. Average of all the predictions from different trees are used which is more robust than a single decision tree. Random Forest is an extension over bagging. It takes one extra step where in addition to taking the random subset of data; it also takes the random selection of features rather than using all features to grow trees. When having many random trees, its called Random Forest. Boosting is another ensemble technique to create a collection of predictors. In this technique, learners are learned sequentially with early learners fitting simple models to the data and then analyzing data for errors. In other words, fit consecutive trees or random sample and very step, the goal is to solve for net error from the prior tree. When an input is misclassified by a hypothesis, its weight is increased so that next hypothesis is more likely to classify it correctly. By combining the whole set at the end converts weak learners into better performing model. Gradient Boosting is an extension over boosting method.



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Regression Analysis

Speaker: DR. Venkateswara Rao

Date: 29-7-21FN

Regression analysis is a set of statistical methods used for the estimation of relationships between a dependent variable and one or more independent variables. It can be utilized to assess the strength of the relationship between variable sand for modeling the future relationship between them. Simple line a regression is a model that assesses the relationship between a dependent variable and an independent variable. Multiple linear regression analysis is essentially similar to the simple linear model, with the exception that multiple independent variables are used in the model. Regression analysis comes with several applications in finance. For example, the statistical method is fundamental to the Capital Asset Pricing Model (CAPM). Essentially, the CAPM equation is a model that determines the relationship between the expected return of an asset and the market risk premium. The analysis is also used to forecast the returns of securities, based on different factors, or to forecast the performance of a business.

The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "Let us start with an Example". The slide content includes a bullet point: "How do we predict housing prices" with a sub-bullet: "Collect data regarding housing prices and how they relate to size in feet." Below this is a scatter plot titled "Housing price prediction." showing "Price (\$ in 1000's)" on the y-axis (0 to 400) and "Size in feet²" on the x-axis (0 to 2500). The plot shows a positive correlation with data points marked by 'x'. The Zoom interface includes a top bar with icons for chat, video, and audio, and a right sidebar with a "Participants" list. The list shows 32 participants, including Dr. M. Nirmala (Organizer), A. Rajesh (Guest), ANUSHA A BIDRI (Outside your organization), Appasami G (Outside your organization), Ashwini K (Guest), Diwakara Vasuman, M.S (Outside your organization), and Dr. S. Srinivasulu Raju (Guest). The bottom of the screen shows the Windows taskbar with the date 11:18 AM 7/29/2021.



AI in computer Vision

Speaker: DR. U. Srinivasalu Reddy

Date: 29-7-21 AN

As computer vision evolved, programming algorithms were created to solve individual challenges. Machines became better at doing the job of vision recognition with repetition. Over the years, there has been a huge improvement of deep learning techniques and technology. We now have the ability to program supercomputers to train themselves, self-improve over time and provide capabilities to businesses as online applications. Computer vision is not just about converting a picture into pixels and then trying to make sense of what is in the picture through those pixels. We have to understand the bigger picture of how to extract information from those pixels and interpret what they represent. Convolutional Neural Network is a class of deep feed forward neural networks that is largely inspired by the biological system, where the connectivity pattern between neurons depicts where each individual cortical neuron responds to stimulation only in the restricted region of the visual field known as receptive field, i.e., restrictive



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subarea of the input. The cortical neurons of different fields overlap in such a way that they collectively represent the entire image.

6G Communication Technology: Vision

- 6G technology will use Terahertz Radiation (THz), with electromagnetic waves of wavelength 1 - 0.1mm, which is also known as submillimeter radiation.
- THz is characterized by
 - High bandwidth
 - High data rate
 - High capacity
 - High throughput
- Transition from smart to intelligent
 - In the 6G era, all smart devices will be converted to intelligent devices.
- High quality of experience (QoE) via Holographic communications, augmented reality and virtual reality.

Probable Research Opportunities in Machine Learning Space

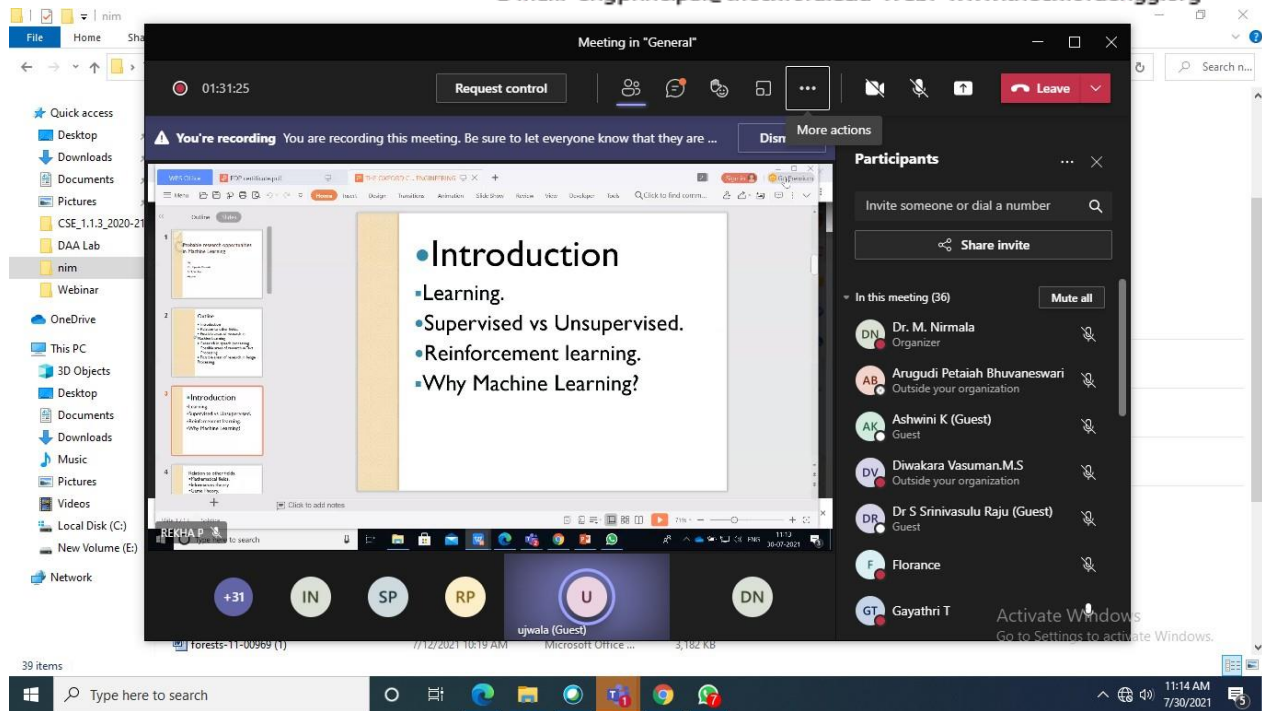
Speaker: DR. Ujwala Baruah

Date: 30-7-21 FN

Machine learning, especially its subfield of Deep Learning, had many amazing advances in the recent years, and important research papers may lead to breakthroughs in technology that get used by billions of people. We present a residual learning framework to ease the training of deep neural networks that are substantially deeper than those used previously. We explicitly reformulate the layers as learning residual functions with reference to the layer inputs, instead of learning unreferenced functions. We provide comprehensive empirical evidence showing that these residual networks are easier to optimize, and can gain accuracy from considerably increased depth. Training Deep Neural Networks is complicated by the fact that the distribution of each layer's inputs changes during training, as the parameters of the previous layers change. We refer to this phenomenon as internal covariate shift, and address the problem by normalizing layer inputs. Applied to an image classification model, Batch Normalization achieves the same accuracy with 14 times fewer training steps, and beats the original model by a significant margin.



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From Cloud to Edge computing

Speaker: DR.Anandhi Giridharan

Date: 30-7-21 AN

Edge Computing can support companies with computing tasks that cannot be done in the cloud and offers clear advantages when dealing with low latency, connectivity, security, or privacy, and transmitted data volumes are an issue. Edge and distributed cloud architectures will increase the speed of data processing and reduce time lag. Edge computing, alone or in combination with Cloud Computing, will play a key role to enable technologies like autonomous vehicles, digital factories, smart cities, digital health, smart tracking and much more. It is already starting to reshape enterprise computing and it can play a vital role in IT architectures. All the industries that need to perform the computing tasks as close to where data is gathered as possible will benefit from Edge Computing. Edge Computing refers to the computations that take place at the 'outside Edge' of the internet, as opposed to Cloud Computing, where computation happens at a central location. Edge Computing typically executes close to the data source, for example on board or adjacent to a connected camera. A self-driving car is a perfect example of Edge Computing. In order for cars to drive down any road safely, it must observe the road in real-time and stop if a person walks in front of the car. In such a case, processing visual information and making a decision is done at the Edge, using Edge Computing.



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Outlier and Imbalanced Concepts in ML

Speaker: DR.ManjubalaBisi

Date: 31-7-21FN

Machine Learning algorithms tend to produce unsatisfactory classifiers when faced with imbalanced data sets. For any imbalanced data set, if the event to be predicted belongs to the minority class and the event rate is less than 5%, it is usually referred to as a rare event. The conventional model evaluation methods do not accurately measure model performance when faced with imbalanced datasets. Standard classifier algorithms like Decision Tree and Logistic Regression have a bias towards classes which have number of instances. They tend to only predict the majority class data. The features of the minority class are treated as noise and are often ignored. Thus, there is a high probability of misclassification of them in ority class as compared to the majority class. Evaluation of a classification algorithm performance is measured by the Confusion Matrix which contains information about the actual and the predicted class. However, while working in an imbalanced domain accuracy is not an appropriate measure to evaluate model performance. Dealing with imbalanced datasets entails strategies such as improving classification algorithms or balancing classes in the training data or data preprocessing before providing the data as input to the machine learning algorithm. The later technique is preferred as it has wider application. Themainobjectiveofbalancingclassesistoeitherincreasingthefrequencyoftheminorityclassordecreasing the frequency of the majority class. This is done in order to obtain approximately the same number of instances for both the classes.



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Dismiss

Random Under-Sampling

- Under sampling can be defined as removing some observations of the majority class
- This is done until the majority and minority class is balanced out
- Under sampling can be a good choice when you have a ton of data -think millions of rows
- But a drawback to under sampling is that we are removing information that may be valuable

Manjubala Bisi (NITW) (Guest)

Dr. Manjubala Bisi (NITW)

FDP on Advances in AI and ML

31/07/2021

23 / 41

+27

DV

MM

SS

DB

Dr. Manjubala Bisi (NITW) ...

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Invite so

In this meet

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Dr. Org

AG

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DK

Dr E

DS

Dr S

HealthcareusingML

Speaker: DR.Pinki

RoyDate: 31-7-21AN

Machine learning, simply put, is a type of artificial intelligence when computers are programmed to learn information without human intervention. In machine learning, the development of the underlying algorithms relies on computational statistics. Computers are provided data and then the computers learn from that data. The data actually teaches the computer by revealing its complex patterns and underlying algorithms. The larger the sample of data the machine is provided, the more precise the machine's output becomes. Machine learning in healthcare is becoming more widely used and is helping patients and clinicians in many different ways. The most common healthcare use cases for machine learning are automating medical billing, clinical decision support and the development of clinical care guidelines. There are many notable examples of machine learning and health care concepts being applied in medicine.



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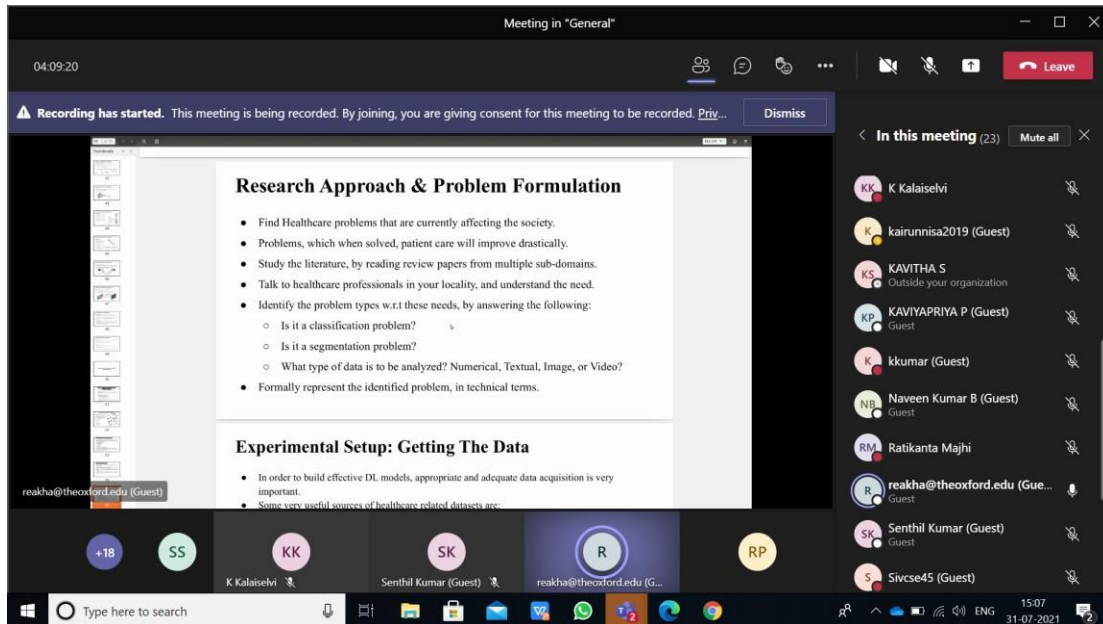
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In radiology, deep learning in healthcare identifies complex patterns automatically, and helps radiologists make intelligent decisions reviewing images such as conventional radiographs, CT, MRI, PET images and radiology reports. The performance of machine learning-based automatic detection and diagnosis systems has shown to be equivalent to that of an experienced radiologist. Google's machine learning applications in healthcare were trained to detect breast cancer and achieved 89 percent accuracy, on par or better than radiologists. These are just a few examples of the many uses of machine learning in healthcare.



Valedictory function

The programme ended with valedictory function. The Organizing chair Dr. R CH A Naidu , HOD of CSE department TOCE, consolidating the 6days FDP program. DR.N.Kannan, Principal TOCE joined the valedictory function and gave his valuable speech. He appreciated the participants ,the program organizer and coordinators. The forum was opened for the participants to deliver their feedback .Finally the programme ended with vote of thanks.



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Meeting in "General"

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REKHA P

CSEHOD

Dr. Kannan | Principal, Oxford

Ratikanta Majhi

reakha@theoxford.edu (Guest)

ARUNA M G (Guest)

kairunnisa2019 (Guest)

Ashwini K (Guest)

Fiorance

Surekha Pinnapati (Guest)

+10 HB KS JS SN TS IN DV AS

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15:53 31-07-2021



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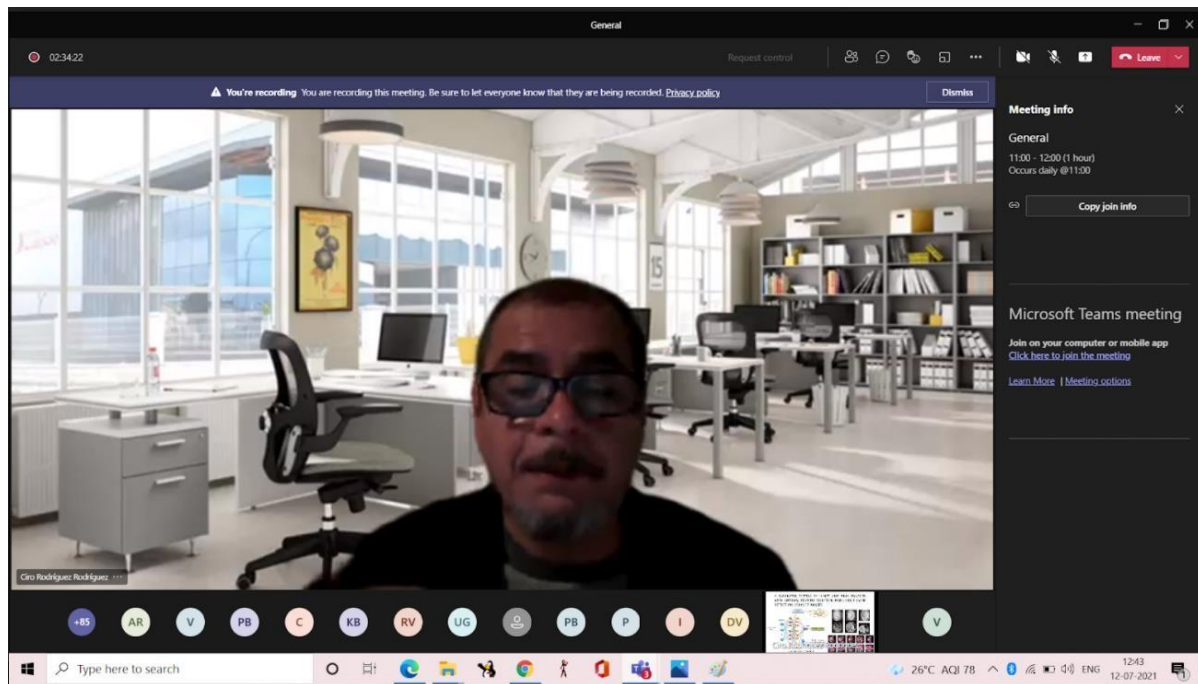
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Report on FDP on “Advancements in AI and ML” ISE 12/7/21-17/7/21

A one week Faculty Development Program (FDP) on “Advancements in AI and ML” was organized at the Department of Information Science Engineering, The Oxford College of Engineering Bangalore from 12th July 2021 to 17th July 2021 in association with CSI Chapter Bengaluru.





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General

02:26:41

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AN ACCURATE GENERATION OF IMAGE CAPTIONS FOR BLIND PEOPLE USING ECANN

The progress on image understanding and **Automatic Image Captioning AIC** has attracted researchers to use AI to assist the blind people. AIC integrating **computer vision** and **NLP** to generate **automatic language descriptions** in relation to the image observed.

Freiburg Groceries Dataset and Grocery Store Dataset

Participants

- +104
- I
- RV
- UG
- CS
- CH Nithya one-Share...
- B ANANDAPRIYA (Guest)
- Prashanth Bandi
- PB
- P
- ISEHOO
- Dr. Venugopalan
- V

General

02:46:37

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Presenters (3)

- Vidhyasiddhan Organizer
- Ciro Rodriguez Rodriguez Outside your organization
- Dr. Venugopalan
- ISEHOO
- Prashanth

Attendees (83)

- B ANANDAPRIYA (Guest)
- "Pooja Soni (Guest)"
- A Aarti (Guest)
- A R Rahman (Guest)
- ABHIJAT KUMAR SHUKLA (Guest)
- Aiswarya.S (Guest)
- Anuradha Yenikar Outside your organization
- ARUNA REDDY JH

Participants

- +71
- DC
- KK
- AR
- V
- PB
- C
- KB
- RV
- PB
- P
- I
- V



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FDP - AI AND ML_ISE_TOCE

26:34:06

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Presenters (3)

- vidhyasiddhan Organizer
- Dr. Vanajaselin
- Mahesh Kolekar (Guest) Guest
- SandyaRani V
- Vinay Kumar Singh Outside your organization

Attendees (7)

- Prof.Rathod V U Outside your organization
- Muthule Prasad (Guest) Guest
- MVENGATESHWARAN (Gues... Guest
- A Aarti (Guest) Guest
- A R Rahman (Guest) Guest
- Aiswarya S (Guest) Guest
- ASHA Outside your organization
- AVS Radhika

Windows taskbar: Type here to search, 26°C, 12:43, 13-07-2021

FDP - AI AND ML_ISE_TOCE

02:27:12

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Presenters (3)

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- Dr. Vanajaselin
- Mahesh Kolekar (Guest) Guest
- SandyaRani V
- Vinay Kumar Singh Outside your organization

Attendees (7)

- Prof.Rathod V U Outside your organization
- Muthule Prasad (Guest) Guest
- MVENGATESHWARAN (Gues... Guest
- A Aarti (Guest) Guest
- A R Rahman (Guest) Guest
- Aiswarya S (Guest) Guest
- ASHA Outside your organization
- AVS Radhika

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The screenshot shows a Zoom meeting interface. The main window displays a PowerPoint slide titled "Deep Learning Techniques For Automated Screening of COVID-19" by Dr. Maheshkumar H. Kolekar, Associate Professor at Electrical Engineering Dept., IIT Patna. The slide content includes a title, author name, affiliation, and a list of topics. The Zoom interface shows a list of participants on the right, including Dr. Maheshkumar H. Kolekar, Dr. Varajagadhi, and others. The bottom of the screen shows the Windows taskbar with various application icons and system status.

The screenshot shows a Zoom meeting interface. The main window displays a GitHub repository titled "Hands On Programming with Python" by Chetan Acharya Y. The repository contains a README file and a list of session files. The Zoom interface shows a list of participants on the right, including Chetan Acharya Y, Dr. Nirmala S, and others. The bottom of the screen shows the Windows taskbar with various application icons and system status.



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42:11

Request control

Meeting chat

3 Happy

<https://www.routledge.com/Data-Analytics-for-Pandemics-A-COVID-19-Case-Study/Shinde-Kalamkar-Mahalle-Dev/p/book/9780367558468>

2020 Outstanding Book in STEM Award

DATA ANALYTICS FOR PANDEMICS
A COVID-19 Case Study

Dr. Parthibha Mahalle

Meeting ended: 2h 28m 59s

Meeting ended: 2h 28m 59s

Meeting ended: 7h 4m 51s

Meeting ended: 2h 28m 59s

Meeting started

11:20 H Se

Type here to search

25°C Rain showers

11:21 17-07-2021

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Department of Information Science and Engineering
In Association with CSI Chapter Bengaluru

Organised

6 Days Faculty Development Program On

Advancements in Artificial Intelligence (AI) and Machine Learning (ML)

From 12th - 17th JULY 2021

Valedictory Function

On 17th July at 2:00 PM to 3:00 PM

Patron

Dr. Amarnath K,
Director, The Oxford Educational Inst.

Dr. N Malmurugan
Director, The Oxford Edu. Inst.

Dr. K. M Ravi Kumar
Director, The Oxford College of Engineering

Dr. Kannan N
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HOD- ISE

Convener/ Program coordinator

Dr. Vanajaroselin E. Chirchi
Professor, ISE Department

FDP - AI & ML_ISE... 01:09:10



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ONE WEEK FACULTY DEVELOPMENT PROGRAMON

RECENT TRENDS IN PHOTONICS June 14-19, 2021

at

Department of Electronics and Communication Engineering



Brochure of Six Days Faculty Development Program on Recent Trends in Photonics

On Day 1 the keynote address was delivered by **Dr. Manpreet Singh Manna**, Former Director AICTE E, Prof. SLIET Longowal. The introduction to the Keynote speaker was given by FDP Coordinator Dr. A Chrispin Jiji, Associate Professor, ECE dept. In his talk he spoke on the Roadmap for Engineers to become Entrepreneur.



Keynote address by Dr. Manpreet Singh Manna

The next technical session was conducted by **Dr. T Srinivas**, Faculty, IISc, Bangalore. He spoke on Photonic Integrated Circuits and the participants learnt about the working and use of



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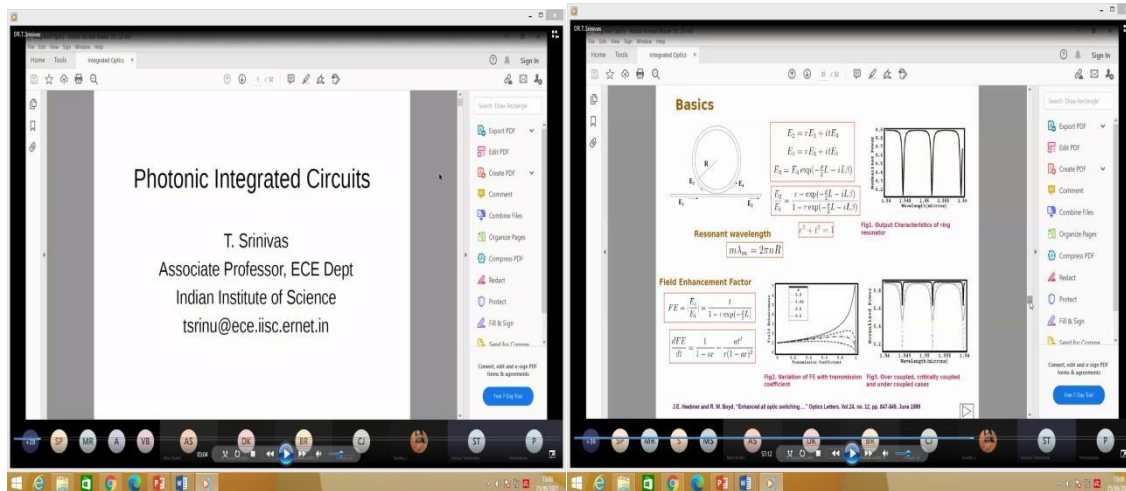
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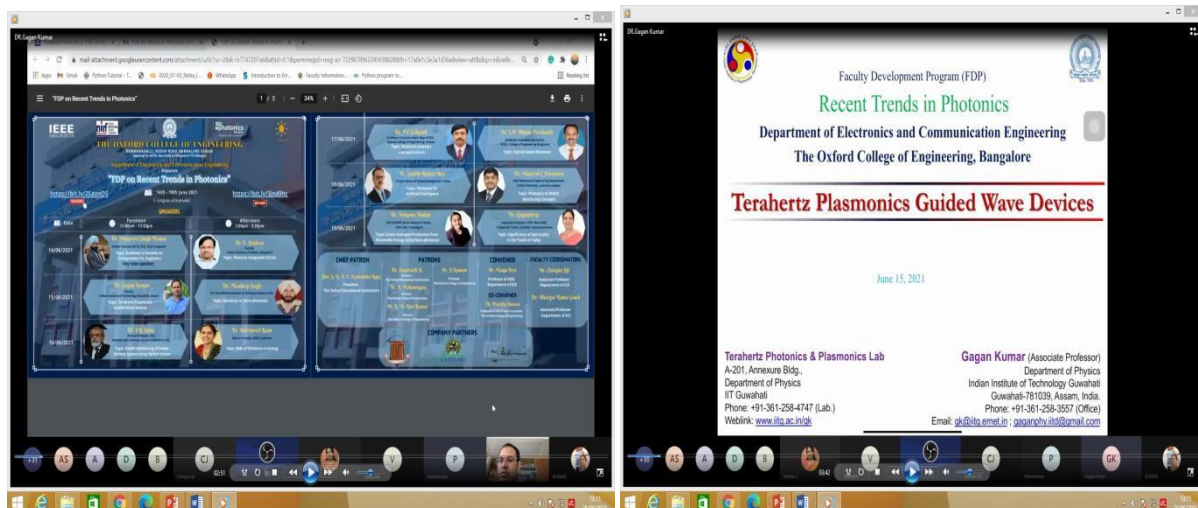
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these optical circuits. The introduction to the Keynote speaker was given by FDP Coordinator Dr.A Chrispin Jiji, Associate Professor, ECE dept.



TechnicalsessionbyDr.T.Srinivas

OnDay2Session1wasconductedby**Dr.Gagan Kumar**,Faculty, IITGuwahati, Assam, He spoke on the Terahertz Plasmonics Guided Wave Devices. The participants learnt about the different research work carried out in this field and the different areas yet to be explored intheirdomainusingthistechnology.TheintroductiontotheKeynotespeakerwasgivenbyFDPCoordinatorDr. A Chrispin Jiji, Associate Professor, ECE dept.



TechnicalsessionbyDr.GaganKumar

Session 2 was conducted by **Dr. Mandeep Singh**, NIT Surathkal Karnataka & Visiting Scientist at IISc, about Advances in Nano photonics. In this session participants were learnedaboutCOMSOLsoftware.TheintroductiontotheKeynotespeakerwasgivenbyFDPCoordinatorDr. R.Bhargava Rama Gowd, Associate Professor, ECEdept.



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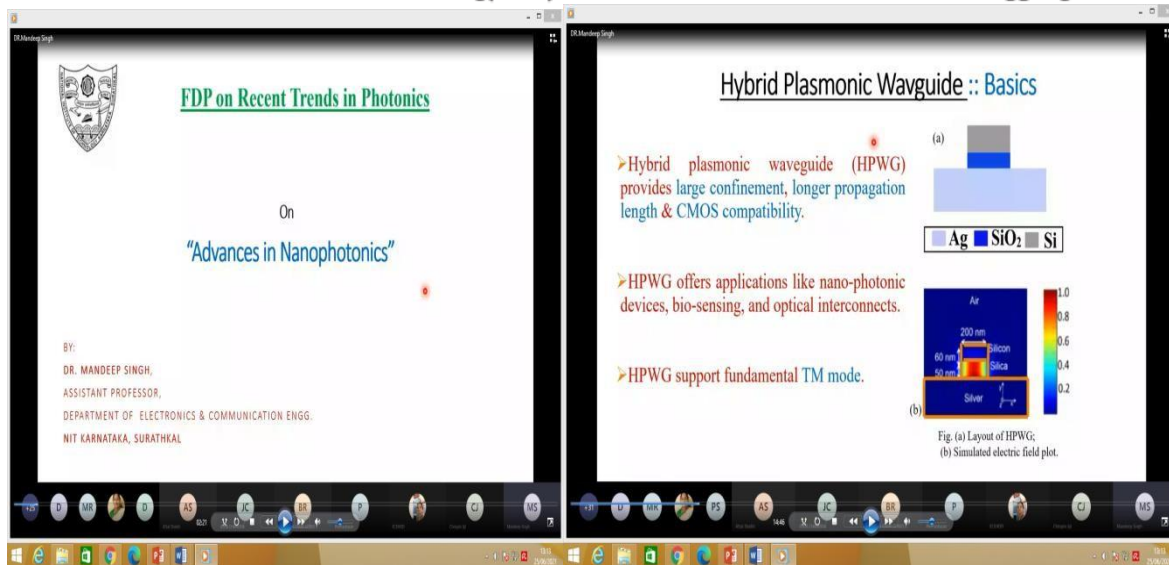
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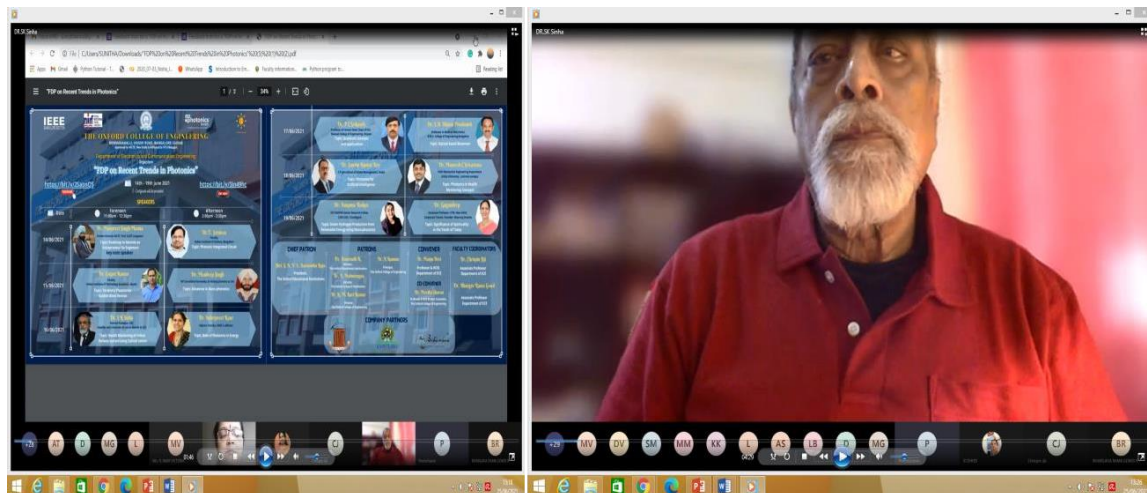
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TechnicalsessionbyDr.MandeepSingh

On Day 3 Session 1 was conducted by **Dr. S K Sinha**, Retired Professor IISC, Founder and Chairman at Lab to Market in IISC. He spoke about Health Monitoring of Indian Railway system using Optical Sensor and also discusses the importance of Photonics in Railway System. The introduction to the Keynote speaker was given by FDP Co Convener Dr. Preeta Sharan, Professor, ECE dept.



Technicalsessionby Dr.S.K.Sinha

Session 2 was conducted by **Dr. Inderpreet Kaur**, Adjunct Faculty, GNEC Ludhiana, Topic: Role of Photonics in Energy. In this session participants have learned about various energyresourcesinPhotonics.TheintroductiontotheKeynotespeakerwasgivenbyFDPCoordinatorDr.A Chrispin Jiji, Associate Professor, ECE dept.



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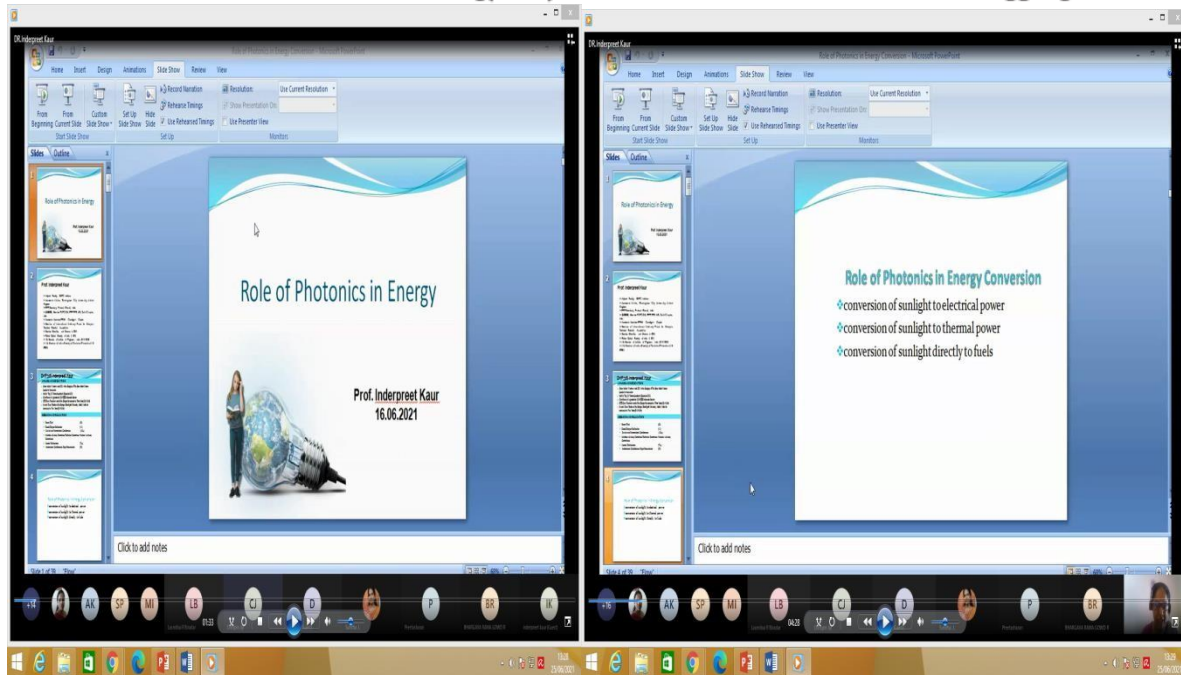
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Technical session by Dr. Inderpreet Kaur

On Day 4 Session 1 was conducted by **Dr. P C Srikanth**, Professor & Former Head, Dept of ECE, Malnad College of Engineering, Hassan. He spoke about Quantum concepts and applications. In this session participants have learned about the new emerging technique called quantum concepts. The introduction to the Keynote speaker was given by FDP Coordinator Dr. R. Bhargava Rama Gowd, Associate Professor, ECE dept.



Technical session by Dr. P.C. Srikanth

Session 2 was conducted by **Dr. S.B. Bhanu Prashanth**, Professor in Medical Electronics B.M.S. College of Engineering Bangalore. He spoke about Optical based Biosensor. In this



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session participants have learned about the basis of various Bio sensors. The introduction to the Keynote speaker was given by FDP CoConvener Dr.PreetaSharan, Professor, ECEdept.

TechnicalsessionbyDr.S.B.BhanuPrashanth

OnDay5Session1wasconductedby **Dr.SandipKumarRoy**, Professor, SP Jain School of Global Management, Dubai. He spoke about Photonics for Artificial Intelligence. In this session participants have learned about how artificial intelligence related Photonics. The introduction to the Keynote speaker was given by FDP Coordinator Dr. R.Bhargava Rama Gowd,Associate Professor, ECE dept.

TechnicalsessionbyDr.SandipKumarRoy



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Session 2 was conducted by **Dr. Maneesh C Srivastava**, HOD Mechanical Engineering, Amity University Lucknow Campus, India. He spoke about Photonics in Health Monitoring Concepts. In this session participants have learned about the IoT based devices. The introduction to the Keynote speaker was given by FDP Coordinator Dr. R. Bhargava Rama Gowd, Associate Professor, ECE dept.



Technical session by Dr. Maneesh C Srivastava

On Day 6 Session 1 was conducted by **Anupma Thakur**, DST-INSPIRE Senior Research Fellow, CSIR-CSIO, Chandigarh. In this session participants were taught about Green Hydrogen Production from Renewable Energy using Nano-photonics. The introduction to the Keynote speaker was given by FDP Coordinator Dr. A. Chrispin Jiji, Associate Professor, ECE dept.



Technical session by Anupma Thakur

Session 2 was conducted by **Dr. Gagandeep**, Associate Professor-IITM, New Delhi; Corporate Trainer, Founder-Weaving Dreams. She spoke about the Significance of Spirituality In the Youth of Today. The introduction to the Key note speaker was given by FDP Co Convener Dr. Preeta Sharan, Professor, ECE dept.



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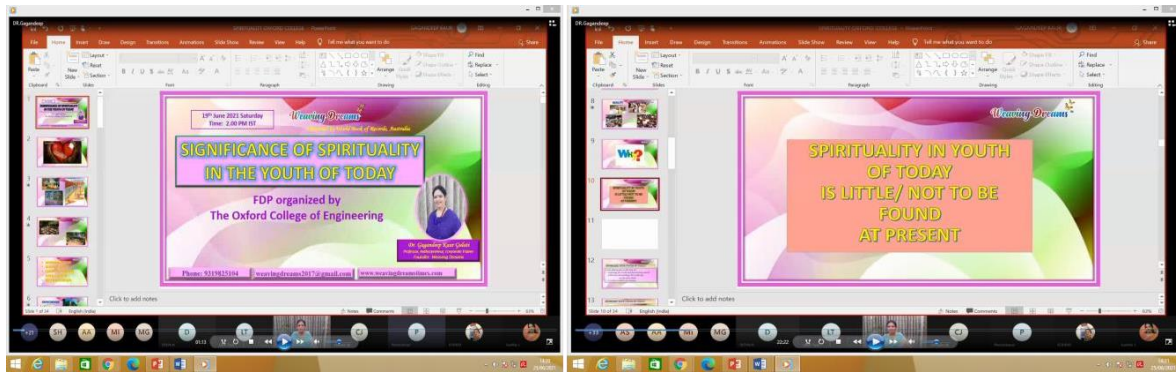
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Technicalsessionby Dr.Gagandeep

OUTCOME:

All the sessions were very much informative. The discussed areas are of great benefit for the participants as the topics match with the current working domain. Participants were enlightened with the most widely used advanced technologies in this domain. On the whole, the FDP received a lot of positive feedback from participants and it paved the way for participants to implement their Research Ideas in Recent Trends in Photonics.



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Academic year 2020 -21 (Odd sem)

One Week Online FDP on "Recent Trends in Electrical Engineering (12th to 17th July 2021)

<p>Chief Patron Sri S N V L Narasimha Raju Chairman, The Oxford Group of Institutions</p> <p>Patrons Dr. N Kannan, Principal, The Oxford College of Engineering Dr. Amarnath K, Director, The Oxford Educational Institutions Dr. N. Malmurugan, Director, The Oxford Educational Institutions Dr. K. M. Ravikumar, Director, The Oxford College of Engineering</p> <p>Convener Dr. Bharath V. S., HOD / EEE</p> <p>Faculty Coordinator Prof. Jayakumar N, Associate Prof. EEE Contact Details: 8050837275, Email Id: webinareetoc@gmail.com</p> <p>Organizing Committee</p> <ul style="list-style-type: none"> • Dr. B Devi Vighneshwari, Associate Prof • Prof. Sandhya Rai, Associate Prof • Prof. Nisha C Rani, Associate Prof • Prof. Raichel Ruby, Associate Prof • Prof. Sumitha T L, Assistant Prof • Prof. Someswari T, Assistant Prof • Prof. Resna S R, Assistant Prof • Prof. Anoop H K, Assistant Prof • Prof. Prakruthi P, Assistant Prof • Prof. Poornima M Assistant Prof • Prof. Manjushree J, Assistant Prof 	<p>Recent Trends in Electrical Engineering</p> <p>REGISTRATION DETAILS</p> <p>Click the Link for Registration</p> <p>https://forms.gle/1qrNM5y7i4nx85NA6</p> <p>Join Us in the Whatsapp Group for Further Communications</p> <p>https://chat.whatsapp.com/Cz4Z4RkY3TJA51RyKwJPU</p> <p>Meeting Link Details</p> <p>Click Here to Join Us for the FDP:</p> <p>https://bit.ly/3yuraDX</p> <ul style="list-style-type: none"> • Free Registration • E - Certificate for all the Participants • Faculty/ PG Students / Research Scholars / Industry Persons 	<p>The Oxford College of Engineering One Week Online Faculty Development Programme on Recent Trends in Electrical Engineering 12th July 2021 - 17th July 2021</p> <p>Organized By DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING In Association with ISTE Students Chapter</p> <p>Electrical Engineering</p> <p>With a vision to be a respected and sought after group of educational institutions, we are very much engaged in providing quality education to our students. We are committed to providing quality education to our students. We are committed to providing quality education to our students.</p> <p>Call For Admissions: 080 - 6175 4600 / 603 / 601 / 602 / 604 Website: http://www.theoxford.edu</p>
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<p>About The Institution</p> <p>The Oxford College of Engineering is one of the most prestigious institutions in Bengaluru that provides quality teaching and training in professional courses in various streams of Engineering, post graduate programs in Technology (M Tech), Computer Application (MCA) and in Business Administration (MBA) and Research (Ph.D). The college campus is set in a sprawling 6.25 acres of land, ideal for education in a serene environment with buildings over 65,000 sqmeters of built-up area spread over floors for academic purposes. The college is situated along Information Technology corridor in National Highway towards Electronics City (N.H. 7), 1.0 km from the silk board. The college has a dedicated and highly qualified team of faculty who offer Quality education to the students as per the academic scheme of VTU. The Oxford College of Engineering offers 10 Under Graduate programs including B Arch, 10 M Tech programs, MBA, MCA & 12 Research Centre leading to Ph D / M Sc. in Engg. The college has excellent placement.</p> <p>About EEE Department</p> <p>The Electrical and Electronics Engineering Department was established in the year 2001 with an intake of 60 students for the Undergraduate program (BE). At present the intake has been enhanced to 120 students, a Post Graduate program (M.Tech) in Power Electronics course was started in 2008 with an intake of 10 students. The VTU Research Centre of the department was started during 2014 and has seen good progress as many scholars have registered for Ph.D. The Electrical and Electronics Engineering Department was accredited by "NATIONAL BOARD OF ACCREDITATION (NBA)" for the first time in the year 2007 and the Accreditation was renewed in the year 2016. The Department of Electrical and Electronics Engineering got NBA Accreditation for the Third time for the duration of three years from 2018 to 2021. The Department is also accredited by NAAC.</p>	<p>OBJECTIVES OF THE FDP</p> <p>The proposed faculty development programme provides a proper platform to participate for discussion and presentation of the latest technologies and discoveries in the field of Electrical Engineering. This is a quality course providing forum for academicians and industrial professionals to exchange their knowledge and state of art of aforesaid areas. The course content will be taught by eminent experts in the field, having adequate teaching and industrial experience. This course will offer a unique opportunity to the researchers, academicians and students working in this area to acquire knowledge in current and relevant topics in Electrical Engineering. This FDP provides deeper insight and knowledge to the participants about the recent advances in Electrical Engineering field.</p> <p>OUTCOMES OF THE FDP</p> <ul style="list-style-type: none"> • The Participants will be able to start using the techniques for their research & teaching • They can get in depth knowledge on recent advancement in industry and research <p>Vision & Mission of EEE Department</p> <p>Vision: Equipping Electrical and Electronics Engineering professionals in the cutting edge technologies of Electrical Science to meet the needs of the ever-changing world.</p> <p>Mission: M1: To learn and experiment most recent innovations in Electrical and Electronics Engineering related to industry. M2: To provide state of art facilities for the continuous improvement in teaching-learning process and research activities in multidisciplinary areas. M3: To emphasize ethics, leadership, entrepreneurship skilled Electrical and Electronics Engineers.</p>	<p>Schedule of the One Week Online Faculty Development Programme</p> <p>Day 1 (12-07-2021 - Monday): Inauguration - 10:00 AM - 10:30 AM Day 1 (12-07-2021 - Monday): Session 1 - 11:00 AM - 12:30 PM Modern Distribution System by Dr. Venkata Kirritga, Associate Professor, NIT, Thiruvananthapuram</p> <p>Day 1 (12-07-2021 - Monday): Session 2 - 2:00 PM - 3:30 PM Trends in Electric Vehicle by Dr. Josephine R L, Associate Professor, NIT, Thiruvananthapuram</p> <p>Day 2 (13-07-2021 - Tuesday): Session 3 - 11:00 AM - 12:30 PM Electrical Machines and Controllers in Wind Energy Systems by Dr. P. Raja, Associate Professor, NIT, Thiruvananthapuram</p> <p>Day 2 (13-07-2021 - Tuesday): Session 4 - 2:00 PM - 3:30 PM Recent Trends in VLSI Technologies: an Automotive Perspective by Mr. Sivaramasubramanian Narayanan, Senior Project Manager, Robert Bosch Engineering and Software Solutions (PES) Ltd, Bangalore.</p> <p>Day 3 (14-07-2021 - Wednesday): Session 5 - 11:00 AM - 12:30 PM EV & its Effect on Smart Grid by Dr. Jithendranath J, Associate Professor, Global Academy, Bangalore.</p> <p>Day 3 (14-07-2021 - Wednesday): Session 6 - 2:00 PM - 3:30 PM Smart Meters in Smart Grid by Dr. S. Sridhar, Associate Professor, Department of EEE, M. H. H. Institute of Technology, Bangalore.</p> <p>Day 4 (15-07-2021 - Thursday): Session 7 - 11:00 AM - 12:30 PM Introduction to Solar PV Systems by Dr. B. Pradeep Kumar, Associate Professor, National Institute of Technology & Science, Hyderabad.</p> <p>Day 4 (15-07-2021 - Thursday): Session 8 - 2:00 PM - 3:30 PM Grid Integration of Electric Vehicle by Dr. Ilango Karuppusamy, Assistant Professor, Anna School of Engineering, Coimbatore.</p> <p>Day 5 (16-07-2021 - Friday): Session 9 - 11:00 AM - 12:30 PM MEMS Devices in Real World Applications by Dr. Basudeb Behra, Assistant Professor, Institute of Technology, Gandhinagar, Hyderabad.</p> <p>Day 5 (16-07-2021 - Friday): Session 10 - 2:00 PM - 3:30 PM Multi Mode Single Stage PV Inverters: Operation & Derivation by Dr. Ashok Kumar, Assistant Professor, NIT, Thiruvananthapuram.</p> <p>Day 6 (17-07-2021 - Saturday): Session 11 - 11:00 AM - 12:30 PM Embedded System Challenges and Electrical Applications in Automotive by Mr. Shamin Duda T S, General Manager, Power Tools & Laundry, Hubert Bosch Engineering & Software Solutions Ltd, Bangalore.</p> <p>Day 6 (17-07-2021 - Saturday): Session 12 - 2:00 PM - 3:30 PM Industrial Applications of Electrical Drives by Mr. Thangaraj Arumugam, Assistant Manager, ISTE, Bangalore.</p> <p>Day 6 (17-07-2021 - Saturday): Valedictory Function - 03:45 PM - 04:00 PM</p>
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Brochure of the 6 days FDP in Recent Trends in Electrical Engineering



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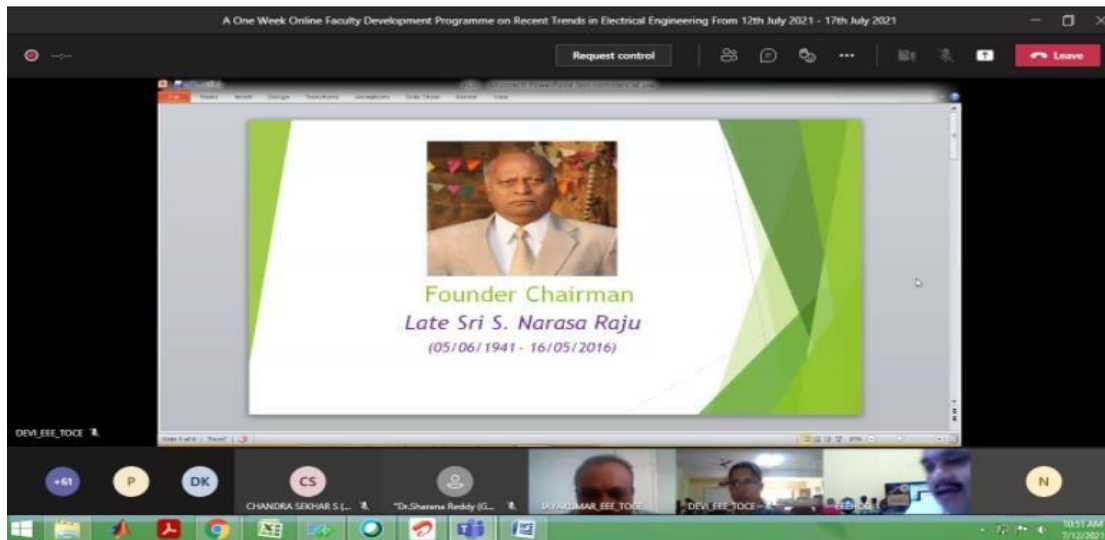
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Inaugural Program of the Faculty Development Program



Inaugural Program of the FDP on “Recent Trends in Electrical

Engineering” Day 1: 12th July 2021 Session 1 (11:00 AM-12.30PM)



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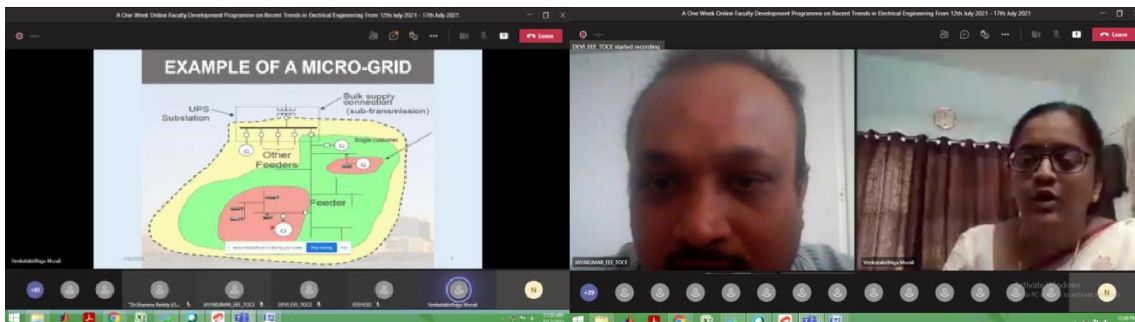
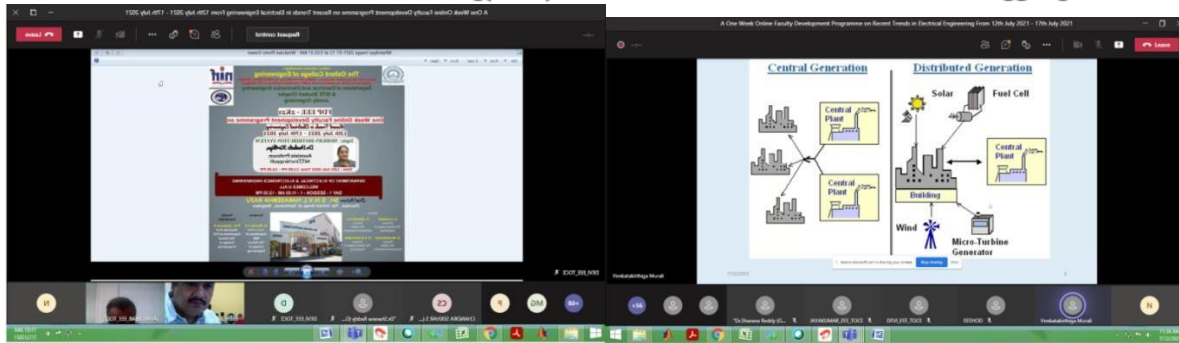
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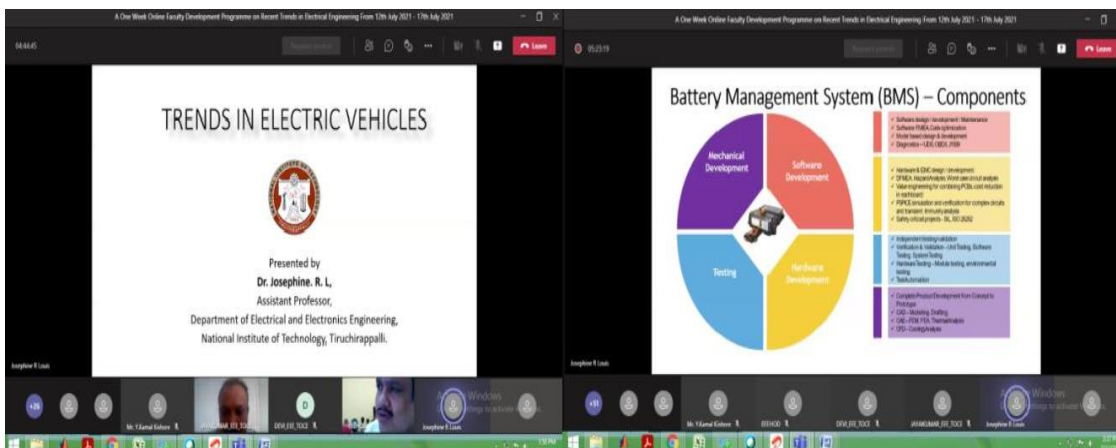
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Day 1 Session1

Day1:12thJuly2021Session2(2:00PM-3.30PM)

The next technical session was handled by Dr Josephine, Assistant Professor, EEE deptNIT, Tiruchirapalli on Trends in Electric Vehicles .Dr Josephine has spoke about the BatteryManagementsystemandBatteryTechnologieswithPowerElectronics.Shehasdetailedabo utEV battery chargers evolution and challenges. The welcome address and vote of thanks to theresourcepersonandalltheparticipantswasdonebyMr.NJayakumar,AssociateProfessor ,EEE department.





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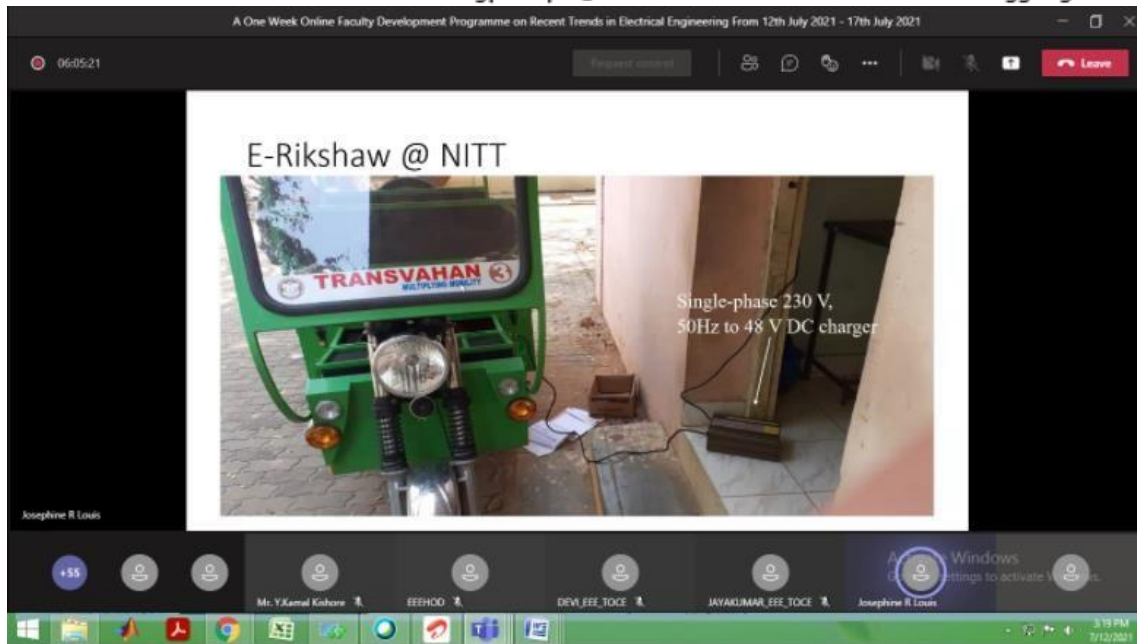
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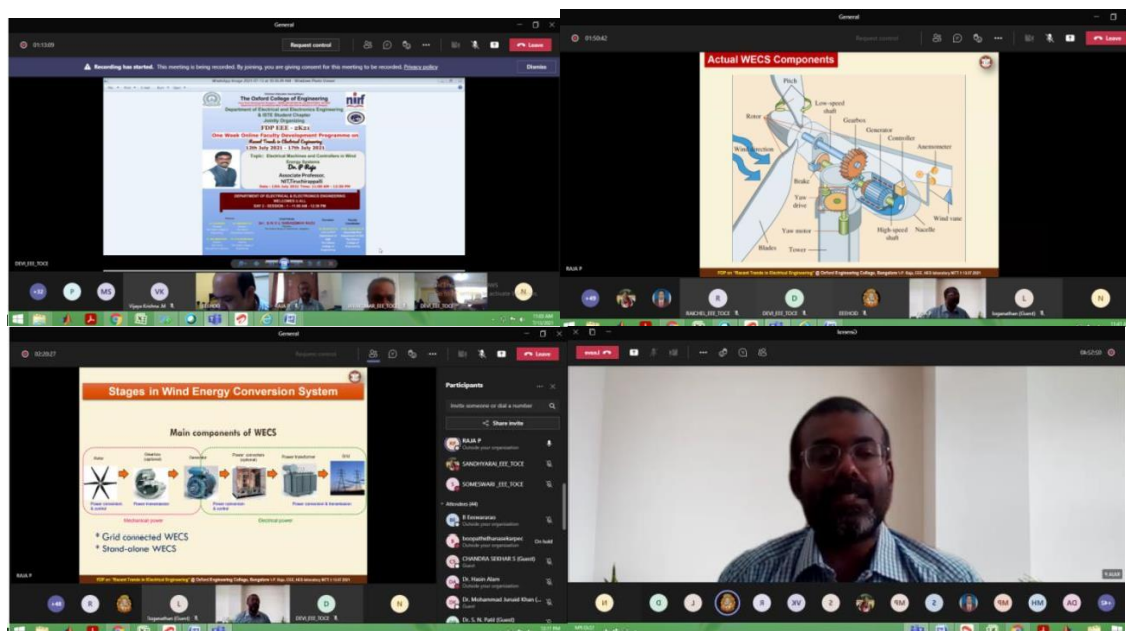
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Day1 Seesion2

Day2:13thJuly 2021 Session3(11:00AM-12.30 PM)

The second day of the program started with a very interesting talk on Electrical Machines and Controllers in Wind Energy System by Dr.P Raja, Associate Professor, EEE dept NIT, Tiruchirapalli. Dr. P Raja has given a detailed explanation about wind energy conversionsystemsandsitscontrols.AlsohehasdetailedabouttheperformanceofWindenergyConve rsion Systems. The welcome address and vote of thanks to the resource person and participants was given by Mrs Raichel Ruby Associate Professor EEE dept





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Day2: 13th July 2021 Session 4(2:00PM-3.30PM)

Title: Recent Trends in VLSI technologies an Automotive Perspective

Resource Person: Mr Sivaramasubramanian Narayanan, Hardware Technical expert Robert Bosch Engineering and Business Solutions Bangalore

Recent Trends in VLSI Technologies - An Automotive perspective
Technology Roadmap

- ▶ The International Technology Roadmap For Semiconductors 2.0: 2015
 - ▶ www.itrs2.net
 - ▶ <https://irds.ieee.org>
- ▶ ITRS SPONSORS
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Participants

- ANOO_P_EE_TOCE
- DEVI_EE_TOCE
- EEEHOD Organizer
- JAYAKUMAR_EE_TOCE
- SANDHYARAJ_EE_TOCE
- Sivaramasubramanian Narayanan (MC/ED/EP-PS) Outside your organization

Attendees (39)

- 170160109120 Outside your organization
- AFHAN TANZEEM
- Bharathi Rao (Guest)

Day3: 14th July 2021 Session 5(11:00AM-

12.30PM) Title: EV and Its Effect on Smart Grid

Resource Person: Dr. Jithendranath J , Associate Professor , Global Academy of Technology, Bangalore



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General

40:51

Request control

Smart Grid from an EV perspective

Recent Trends in Electrical Engineering



Dr. Jithendranath. J
(Ph.D, IIT Kharagpur)
Associate Professor, Department of EEE,
Global Academy of Technology,
Bangalore, Karnataka.

J Jithendranath

Webinar @ The Oxford College of Engineering, Bangalore

By - Dr. Jithendranath J

On 14 July, 2021

+39 M

EEHOD

DEVLEE_TOCE

JAYAKUMAR_EEE_TOCE

SOMESWARI_EEE_TO...

J Jithendranath

Windows

Settings to activate Windows


59:41

Request control

Smart Grid from an EV perspective

3. The hope and solution is..... **"SmartGrid":**

Idea of "SmartGrid":
Making the system to work/respond smarter



J Jithendranath

Webinar @ The Oxford College of Engineering, Bangalore

By - Dr. Jithendranath J

On 14 July, 2021

+48 VG

EEHOD

DEVLEE_TOCE

JAYAKUMAR_EEE_TOCE

SOMESWARI_EEE_TO...

J Jithendranath

Windows

Settings to activate Windows

11:35 AM

7/14/2021



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A One Week Online Faculty Development Programme on Recent Trends in Electrical Engineering From 12th July 2021 - 17th July 2021

01:25:23

Request control

Smart Grid from an EV perspective

Grid connected Microgrid

Islanded Microgrid

----- Power and data flow

Webinar @ The Oxford College of Engineering, Bangalore By - Dr. Jithendranath J On 14 July, 2021

Day3:14thJuly2021Session 6(2:00PM-3.30PM)

Title: Smart meters in Smart Grid

Resource Person: Dr. Sridhar S , Associate Professor, MSRIT, Bangalore.

The sixth session of the FDP was in the topic Smart meters in Smart Grid. The session was handled by Dr. Sridhar S. The session started with the welcome address by Mrs Sumitha T L, Assistant Professor, EEE dept. Dr Sridhar has detailed about the major transmission systems in India and biggest blackouts in the history. He has explained about the smart grid conceptual model and realization. The vote of thanks was given by Resna S R, Assistant Professor, EEE dept.

A One Week Online Faculty Development Programme on Recent Trends in Electrical Engineering From 12th July 2021 - 17th July 2021

03:29:21

RAMAIAH Institute of Technology

Smart Meters in Smart Grid

Dr. Sridhar. S
Associate Professor
Dept. of EEE, MSRIT

Dr. Sridhar. S (Guest)

Windows settings to activate Windows

3:05 PM 7/13/2021

Resource Person: Dr.B PradeepKumar, Assistant Professor, Kakatiya Institute of Technology and Science, Warangal.



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Day4:15thJuly2021 Session8(2:00PM-3.30PM)

Title: Grid Integration of Electric Vehicles

Resource Person: Dr.Ilango Karuppuswamy, Assistant Professor, Amrita School of Engineering Coimbatore.

The next session was about Grid intergration of Electric Vehicle handled by Dr.Ilango Karuppuswamy . He has detailed about the charging infrastructures and types and levels of Charging. The welcome address was given by Mrs Resna S R ,Assistant professor ,EEE dept and the vote of thanks was given by Mrs Sumitha TL ,Assistant Professor, Dept of EEE.



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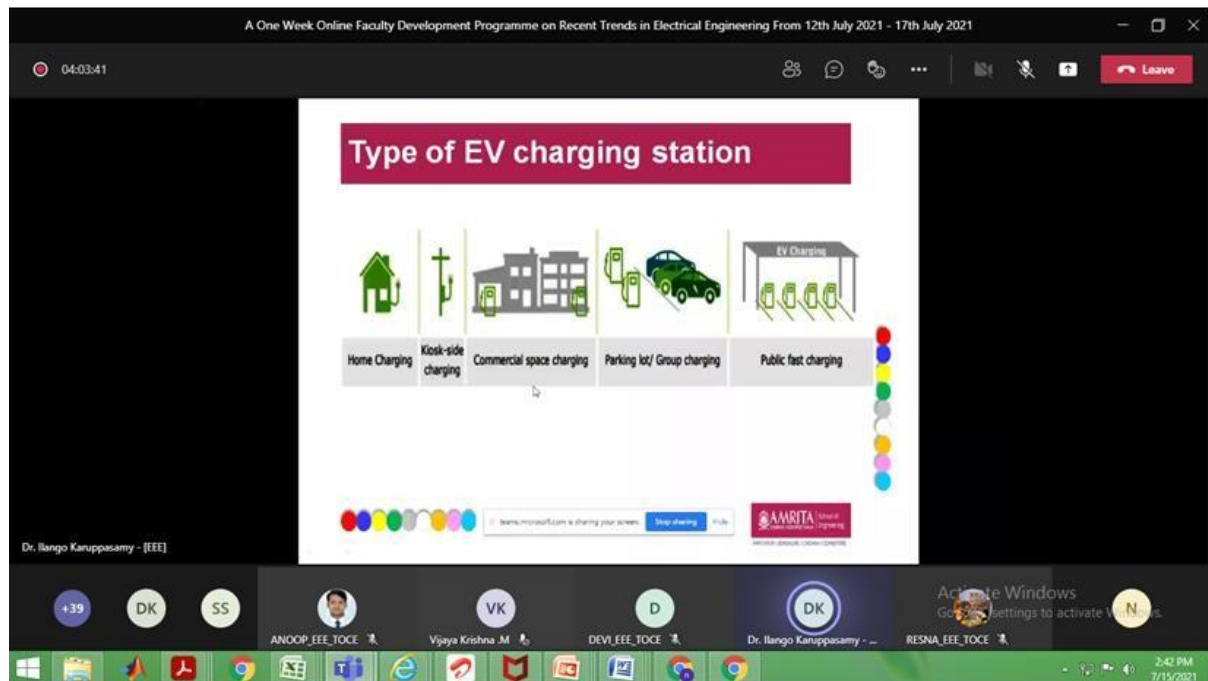
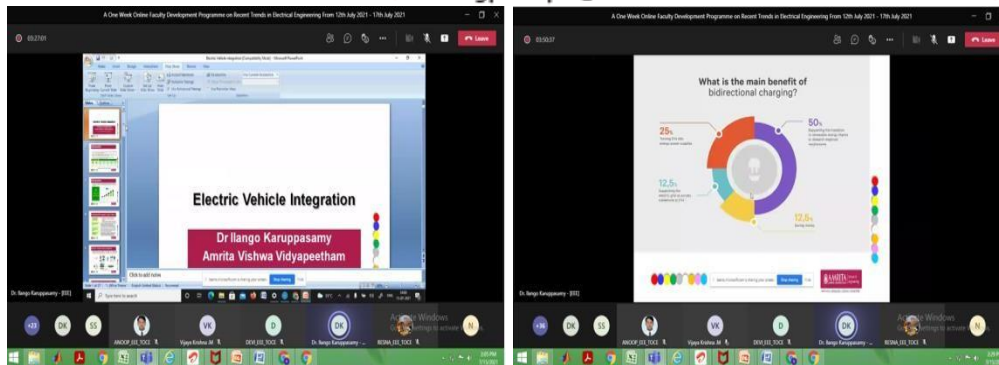
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Day5:16thJuly 2021Session9(11:00AM-12.30PM)

Title:MEMS devices in Real World Applications

ResourcePerson: Dr.BasudevaBehera, AssistantProfessor, NIT Jamshedpur

The fifth day of the FDP started with a session by Dr Basudeva Behera on MEMS devices in real applications. The welcome address was given by Mr Anoop , Assistant Professor ,EEE dept .He has given a detailed explanation about the different types of MEMS actuators. The vote of thanks was given by Mrs Manjushree, Assistant Professor , EEE dept.



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Meeting in "General"

01:26:24

Request control

Leave

Meeting in "General"

02:15:03

Leave

Dr. Basudeba Behara (Guest)

JAYAKUMAR_EEE_TOCE

DEV_EEE_TOCE

ANOOPEEE_TOCE

Dr. Basudeba Behara (Guest)

EEEHOD

Dr. Basudeba Behara (Guest)

EEEHOD

Active

11:43 AM

7/16/2021

General

Active

12:31 PM

7/16/2021

Day5:16thJuly 2021 Session 10(2:00PM-3.30PM)

Title: Multimode Single stage PV inverters: Operation and Derivation



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Resource Person: Dr.AshokKumar, AssistantProfessor, NITTiruchirapalli

The10thsessionwashandledbyDrAshokKumar.ThetopicwasMultimodeSinglestagePVinverters .The welcome address is given by Mrs Prakruthi ,Assistant Professor ,EEE dept.Hehasexplainedaboutthemultilevelinvertersanditsoperation.VoteofthankswasgivenbyMs Poornima,Associate Professor EEE dept

Day6: 17thJuly 2021Session11 (12:00AM-12.30PM)



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General

03:50:00

Request control

Multi-mode Single Stage PV Inverters: Operation and Derivation

Dr Ashok Kumar
Assistant Professor



Department of Electrical and Electronics Engineering
National Institute of Technology-Tiruchirappalli

Ashok Kumar

Mr. Shridhar S.M. JAYAKUMAR_EEE_TOCE PRAKRUTHI_EEE_TOCE EEEHOD Ashok Kumar

Windows settings to activate Windows

General

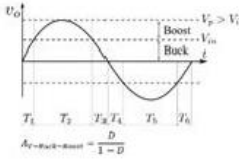
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Request control

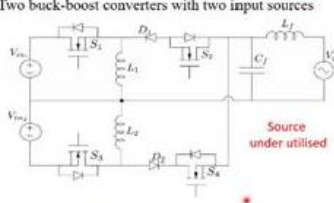
Multi-modal inverters

Based on no. of equivalent circuits employed

1. Quad-modal
2. Bi-modal (two cks)



Two buck-boost converters with two input sources



Source under utilised

Operating sequence of circuits

Ashok Kumar

Mr. Shridhar S.M. JAYAKUMAR_EEE_TOCE PRAKRUTHI_EEE_TOCE EEEHOD Ashok Kumar

Windows settings to activate Windows

General

04:16:16

Day6: 17thJuly 2021Session11 (12:00AM-12.30PM)



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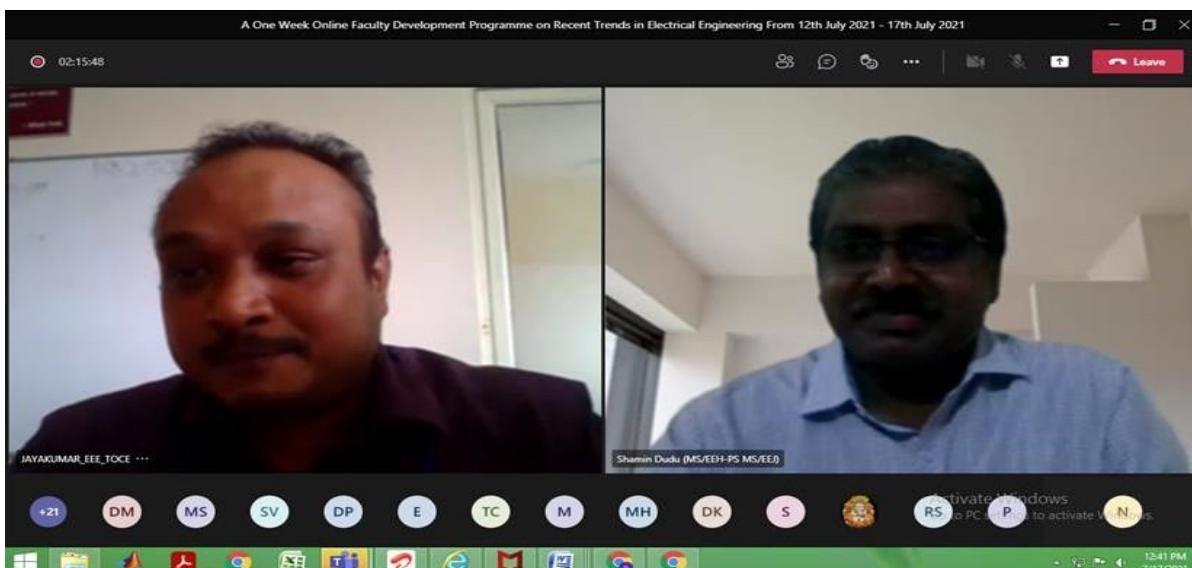
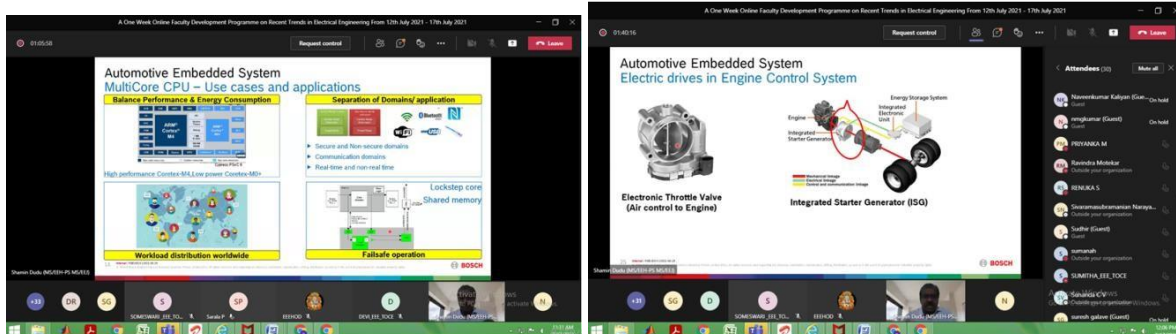
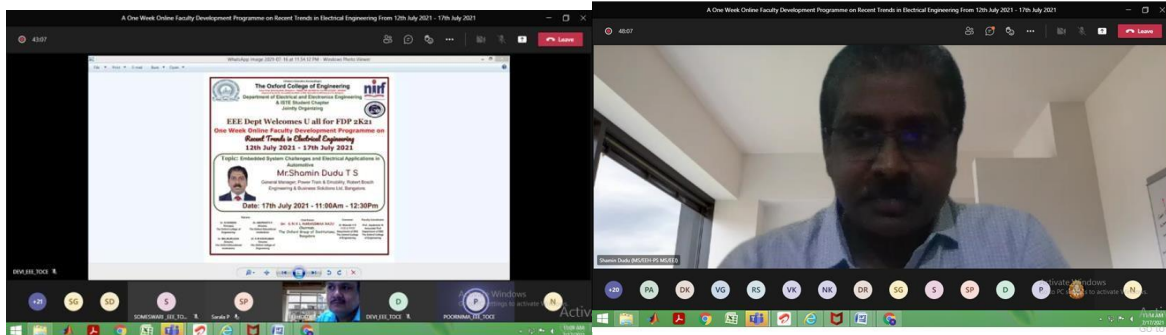
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Title : Embedded System Challenges and Electrical Applications in Automotive
Resource Person: Mr Shamin Dudu TS ,General Manager, Power train Emobility,RobertBosch Engineeringand Business solutionsLtd Bangalore

The last day of the FDP started with the session by Mr Shamin Dudu TS on Embedded System Challenges and Electrical Applications on Automotives. He has detailed about the present scenario of EVs and he has explained about the Electrical application and challenges in automotive field. The welcome address and vote of thanks was given by Ms Poornima, Assistant Professor ,EEE dept.



Day6:17thJuly2021Session12 (2:00PM-3.30PM)



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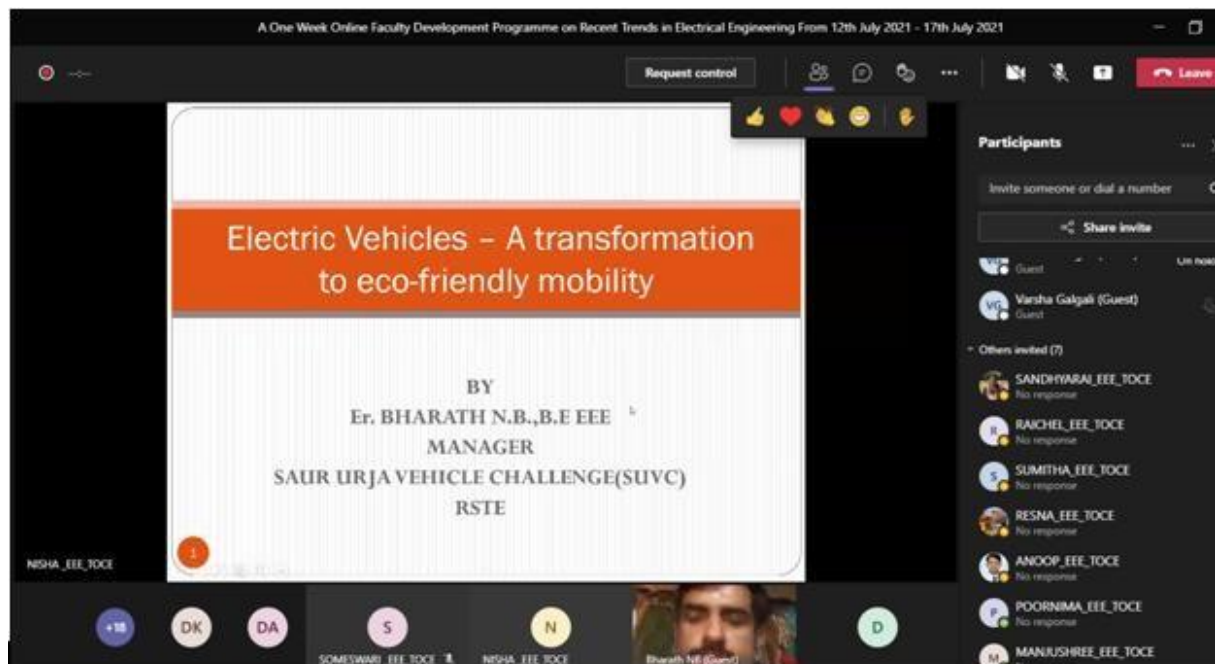
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Title: Electric Vehicles

Resource Person: Mr Bharath , Manager Sour Urja Vehicle Challenge.

Last session of FDP is by Mr.Bharath , He briefed about the Electric Vehicle dynamics and importance in the present situation. Operating condition of EV, BMS algorithms, Economic aspects, Funding prospective in the Electric Vehicle and all discussed in lucid manner which motivated all the participants to ask more questions during the session as Well as after the session also. With his session FDP was ended with happy learning. Prof.Someswari introduced the speaker and Prof. Poornima delivered Vote of Thanks.





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ValedictoryEvent:

On 17.07.2021 at 3.30 P.M , we had a Valedictory session with Our HOD, Co ordinator and all the faculty members with the presence of last session speaker Mr. Bharath.

HoD of EEE Dr. V.S . Bharath concluded FDP with his wonderful thank giving note to all the participants, Management, Principal, Directors of TOCE and Organising committee member s of this FDP for the smooth conduction of this one week FDP through Virtual mode.

Prof. Jayakumar , Summarised the 6 days session and delivered vote of thanks to all.

With this we concluded our FDP.



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Meeting in "General"

05:14:44

Request control

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Vision:
Equipping Electrical and Electronics Engineering professionals in the cutting edge technologies of Electrical Science to meet the needs of the ever-changing world.

Mission:
M1: To learn and experiment most recent innovations in Electrical and Electronics Engineering related to industry.
M2: To provide state of art facilities for the continuous improvement in teaching-learning process and research activities in multidisciplinary areas.
M3: To emphasis ethics, leadership, entrepreneurship skilled Electrical and Electronics Engineers.

Dr.Bharath V S
HOD / EEE
The Oxford College of Engineering

DEV_EEE_TOCE

+27 DA BN JAYAKUMAR_EEE_TOCE EEEHOD MANJUSHREE_EEE_TOCE DEV_EEE_TOCE N

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29°C 15:40 17-07-2021

A One Week Online Faculty Development Programme on Recent Trends in Electrical Engineering From 12th July 2021 - 17th Ju

NISHA_EEE_TOCE SANDHYARAJ_EEE_TOCE SOMESWARI_EEE_TOCE SUMITHA_EEE_TOCE DEV_EEE_TOCE EEEHOD JAYAKUMAR_EEE_TOCE

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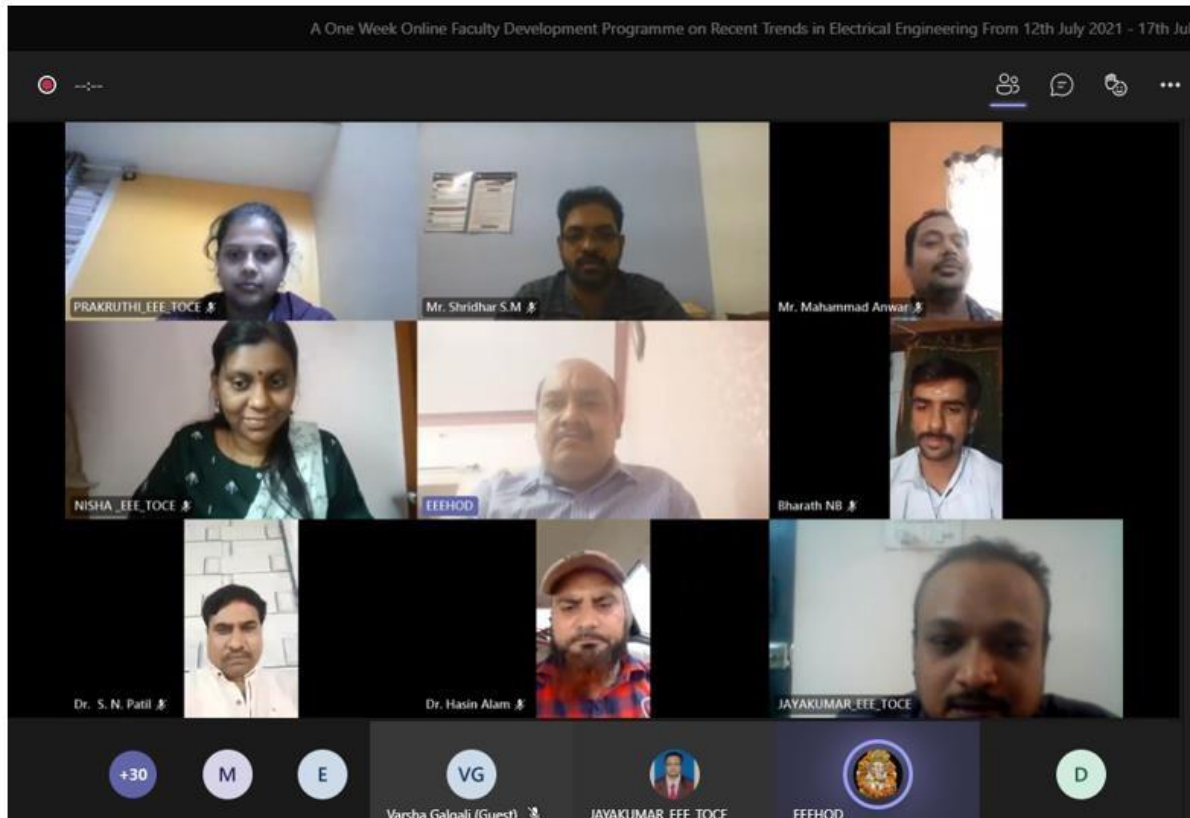
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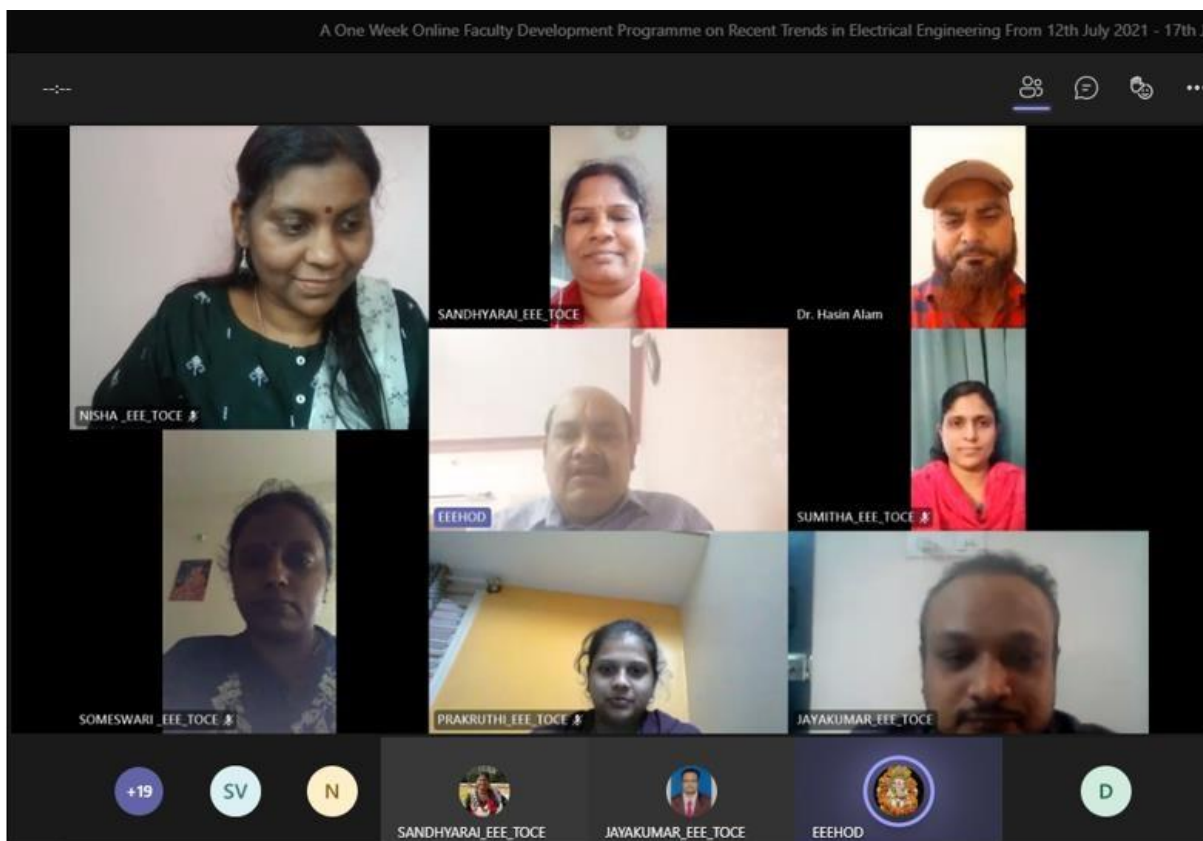
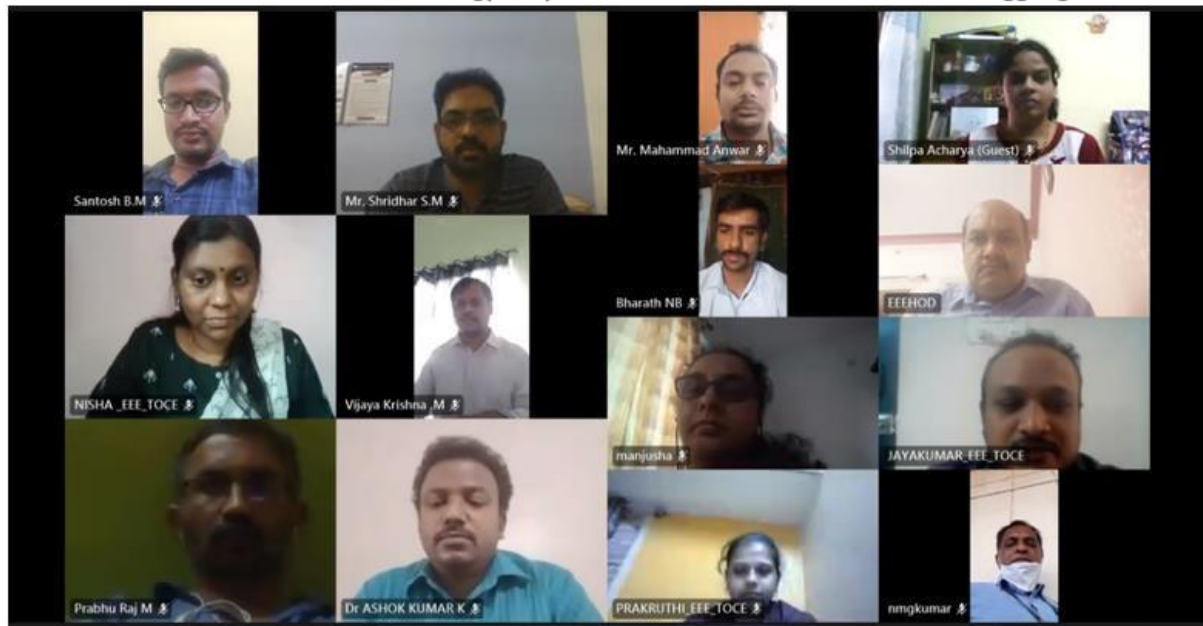
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Feedback from the Participants:

Overall feed back from the participants expressed their happiness and great learning

Throughout the sessions. All the participants were well satisfied with the speakers and their delivery of knowledge sharing.



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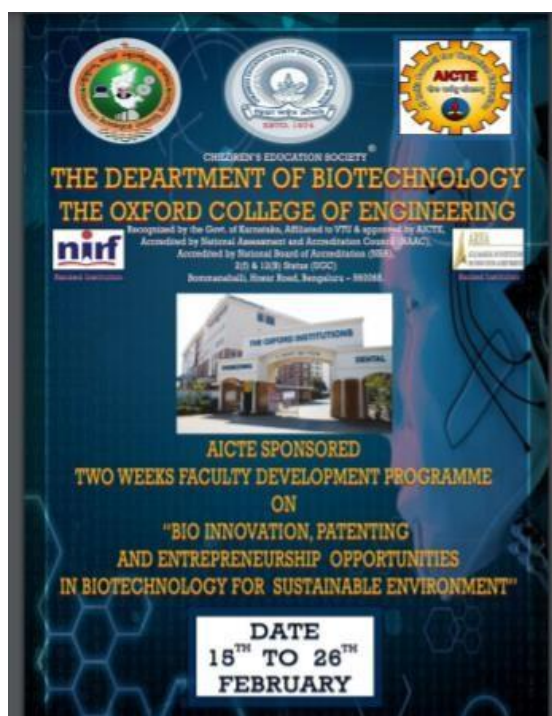
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Academic year 2020 -21 (Odd Sem)

AICTE sponsored Phase 1 FDP on "Bioinnovation, Patenting and entrepreneurship opportunities in Biotechnology for sustainable environment" from 15th to 26th February 2021



The Department of Biotechnology of The Oxford College of Engineering organised AICTE sponsored two weeks Faculty Development Program titled "Bio innovation, Patenting and Entrepreneurship Opportunities in Biotechnology for Sustainable Environment" from 15th to 26th of February 2021, in association with Karnataka State Council for Science and Technology, Government of Karnataka and Visvesvaraya Trade Promotion Centre (VTPC), Department of Industries & Commerce, Government of Karnataka, as knowledge partners for the benefit of all the faculty members.



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Album of FDP event





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AICTE sponsored Phase 2 FDP on "Bio innovation, Patenting and entrepreneurship opportunities in Biotechnology for sustainable environment from 8th to 20th March 2021

The Department of Biotechnology of The Oxford College of Engineering organised AICTE sponsored two weeks Faculty Development Program titled "Bio innovation, Patenting and Entrepreneurship Opportunities in Biotechnology for Sustainable Environment" from 8th to 20th of March 2021, in association with Karnataka state Council for Science and Technology, Government of Karnataka, Bangalore Bioinnovation centre and Visvesvaraya Trade Promotion Centre (VTPC), Department of Industries & Commerce, Government of Karnataka, acknowledge partners for the benefit of all the faculty members.





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"BIO INNOVATION, PATENTING
AND ENTREPRENEURSHIP OPPORTUNITIES
IN BIOTECHNOLOGY FOR SUSTAINABLE ENVIRONMENT"

DATE
8TH TO 20TH
MARCH

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Department of Biotechnology

*Cordially Invites You to the Inaugural Ceremony of AICTE Sponsored
Two Weeks Faculty Development Program (8th to 20th March 2021)
On
"Bio-Innovation, Patenting & Entrepreneurship
opportunities in Biotechnology for Sustainable Environment"
On
8th March at 10:00 AM*

Click on the link
to join
<https://bit.ly/2PBDBwF>

 Presided by Shri. S. N. V. L. Narasimha Raju, Chairman, The Oxford Educational Institutions	 Chief Guest Dr. Jitendra Kumar, Managing Director, Bangalore Bioinnovation Centre (BBC) Bangalore.	 Guest of Honor Dr. Hrishikesh Damle, MD & CEO, Atrimed Pharmaceuticals, Bangalore.
 Key note Speaker Dr. Ramasamy Rajesh Kumar, Professor, College of Agriculture and Biotechnology, Zhejiang University, China.	 Address by Dr. Amarnath K. Director, The Oxford Educational Institutions, Bangalore.	 Convenor Dr. B. K. Manjunath, Dean Research, Professor & Head, Department of Biotechnology, The Oxford College of Engineering, Bangalore.

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*Cordially Invites You to the Valedictory Ceremony of Phase 2 AICTE
Sponsored Two Weeks Faculty Development Program (8th to 20th march 2021)*

On

*"Bio-Innovation, Patenting and Entrepreneurship
Opportunities in Biotechnology for Sustainable Environment"*

On

22nd march at 11:30 am

Click on the link to join- <https://bit.ly/3qS3OUp>

Presided by



Shri.S.N.V.L.Narasimha Raju,
Chairman,
The Oxford Educational Institutions.

Chief Guest



Dr.Manpreeth Singh Manna,
Former Director, AICTE, Associate Professor,
Dept. of Electrical & Instrumentation Engg,
SLIET, Longowal, Punjab.

Guest of Honor



Dr.H.G.Nagendra,
Professor & Head,
Department of Biotechnology,
Sir M Visvesvaraya Institute of Technology,
Bangalore.

Address by



Dr.Amarnath K,
Director,
The Oxford Educational Institutions,
Bangalore.

Convenor



Dr.B.K.Manjunath,
Dean Research,
Professor & Head,
Department of Biotechnology,
The Oxford College of Engineering,
Bangalore.

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The Valedictory session was presided by Shri.S.N.V.L.NarasimhaRaju, Chairman, The Oxford Educational Institutions, and the Chief guest was Dr. Manpreet Singh Manna, Former Director, AICTE, Associate Professor, Department of Electrical and Instrumentation Engg, SLIET, Longowal, Punjab and Guest of Honor was Dr.H.G.Nagendra, Professor & Head, Department of Biotechnology, Sir M.Visveswaraya Institute of Technology. Dr.B.K.Mnjaunath gave a brief presentation about the details of technical talks happened during the 14 days FDP and the participants were overwhelmed with the FDP and they expressed their happiness during the feed back session and the 14 days event was ended with the vote of thanks by Dr.K.Valarmathy, Associate Professor, Department of Biotechnology, The Oxford College of Engineering. This led to the end of the series of lectures in the two weeks programme. The program on the whole was very informative



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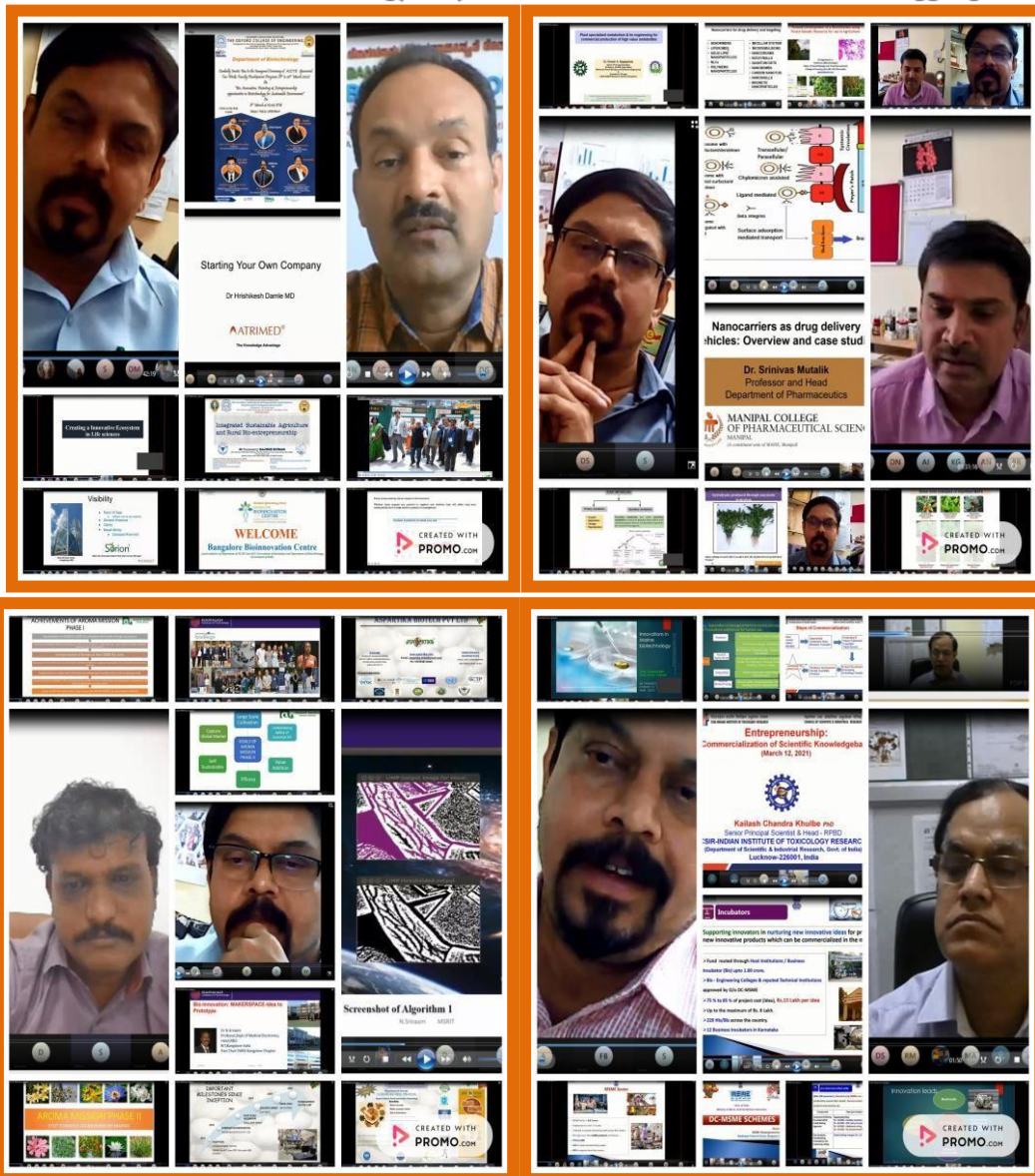
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Short Term Training Programme

“RECENT TRENDS & CHALLENGES FOR NEW PRODUCT DEVELOPMENT”

REPORT

On

**AICTE Sponsored Short Term Training Programme
on “RECENT TRENDS & CHALLENGES FOR NPD”**

At

THE OXFORD COLLEGE OF ENGINEERING, BENGALURU

STTP-1 FROM October 12th to October 17th 2020

12th October, 2020

Inauguration Session

Inaugurated by Dr. Achyutha Rao, Former Head, National Institute of Design, Bengaluru, as a Chiefguest,





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Day-1 & Date: 12-10-2020

Technical Session-1:

Topic: Growth Through Innovation and New Product Development



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“RECENT TREND S&CHALLENGES FOR NEW PRODUCT DEVELOPMENT”

WHY everybody is talking/should be talking of **Innovation NOW?**

- The **economic progress** of any country NOW depends on its '**Innovation Quotient**'

Economic Progress ↔ **Innovation Quotient**

Innovation by DESIGN - Prof. P Achutha Rao

Demystifying Innovation: What It Is & Isn't

- "Innovation is the **implementation** of **new ideas** that **add value**".

14

Technical Session-2:

Topic: **Product Design**

"Everything is Design"

Tool for
Expression of self



Tom Peters



WHAT IS DESIGN

Technical Session-3:

Topic: **Dr. Raju B R**



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The screenshot shows a presentation slide with a dark background and a light blue content area. The slide is titled "Properties of composite materials" and "Applications of composite materials". The "Properties" section lists five bullet points: High strength at low weights, Good impact, compression and fatigue, Cost-effective manufacturing processes, Excellent chemical and corrosion resistance, and Good abrasion resistance. The "Applications" section lists four categories: Construction (Bathtubs, shower stalls and floors etc.), Marine (Ski boats, fishing boats, sail boats etc.), Transportation (Automobile body panels and structural components etc.), and Consumer (Sporting goods, decorative art etc.). Below these, there is a section for Electrical (Housing appliances, circuit boards, insulating boards etc.). At the bottom of the slide, it says "Dr. Raju B R, Dept. of Automobile, TOCE" and "10/12/2020". The slide is displayed in a window titled "PDF - Section 3". Below the window, there is a Windows taskbar with various icons and a system tray showing the date and time.

Properties of composite materials

- ❖ High strength at low weights
- ❖ Good impact, compression and fatigue.
- ❖ Cost-effective manufacturing processes.
- ❖ Excellent chemical and corrosion resistance.
- ❖ Good abrasion resistance.

Applications of composite materials

- ❑ **Construction:** Bathtubs, shower stalls and floors etc.
- ❑ **Marine:** Ski boats, fishing boats, sail boats etc.
- ❑ **Transportation:** Automobile body panels and structural components etc.
- ❑ **Consumer:** Sporting goods, decorative art etc.
- ❑ **Electrical:** Housing appliances, circuit boards, insulating boards etc.

Dr. Raju B R, Dept. of Automobile, TOCE 10/12/2020



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Day-2 & Date: 13-10-2020

Technical session-4:

Topic: Alternative energy source for Automobile - Hybrid Vehicle



Technical session-5:

Topic: Advanced Methods of Manufacturing of Polymer Based Composites for Engg Applications



Technical session-6:

Topic: Applications of PLM in Product development



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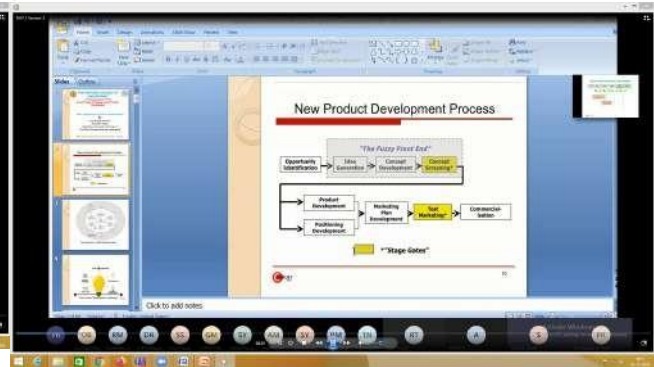
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Day-3 & Date: 14-10-2020

Technical session-7:

Topic: Fully Engineered Pandemic Covid-19



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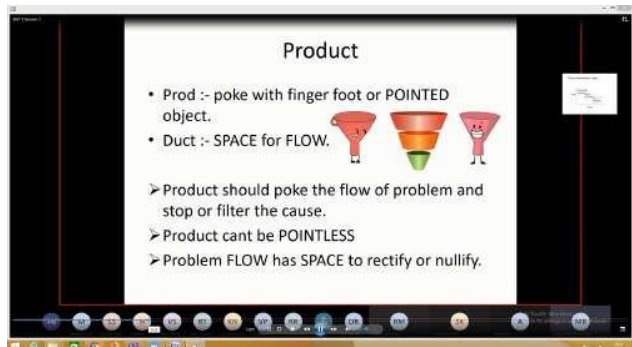
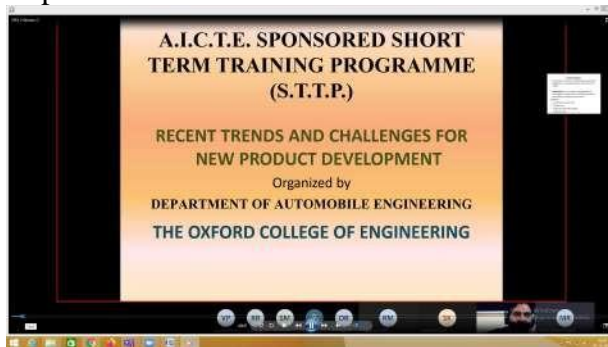
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Technical session-8:

Topic: CONCEPT INITIATION and CREATIVE THINKING



Technical session-9:

Topic: A concept of Wiring, Lighting system in Automotive Electrical and Electronics Systems for NPD



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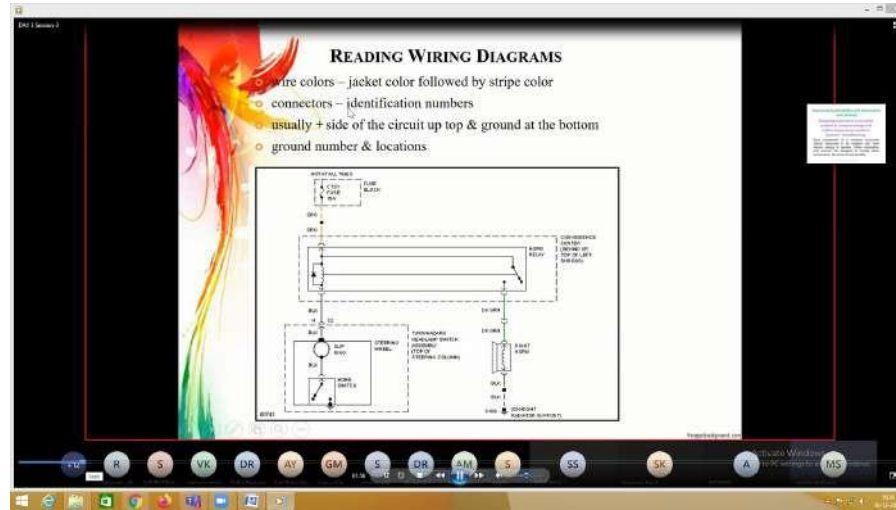
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Day-4 & Date: 15-10-2020



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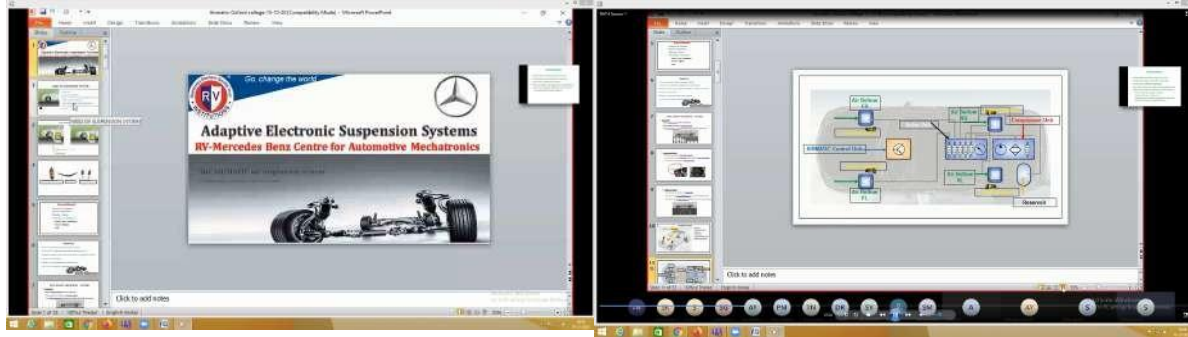
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Technical session-10:

Topic: **Adaptive Electronic Suspension systems**



Technical session-11:

Topic: **SUSTAINABLE TECHNOLOGIES FOR NEW-PRODUCTS “PACKAGING APPLICATIONS”**



Technical session-12:

Topic: **Autotronics: Improving Vehicle Performance**



Day-5 & Date: 16-10-2020

Technical session-13:

Topic: **APPLICATION OF ERGONOMICS IN NEW PRODUCT DESIGN AND DEVELOPMENT**



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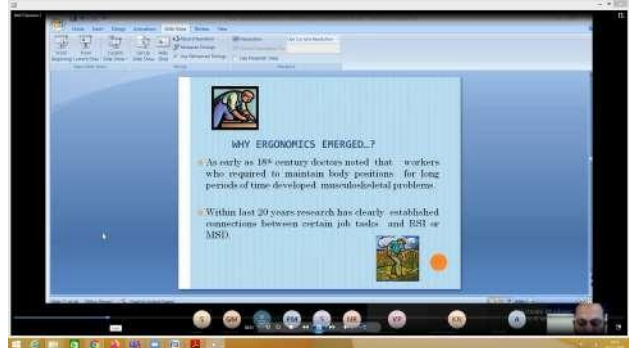
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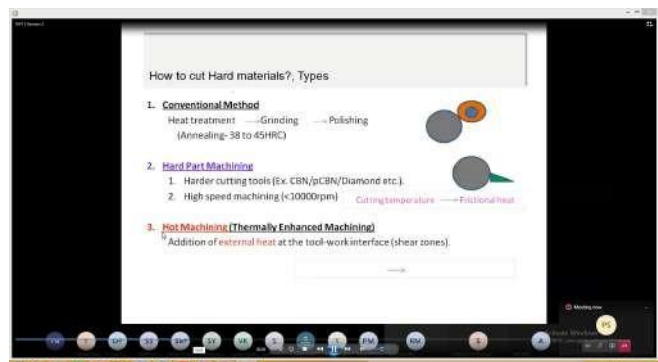
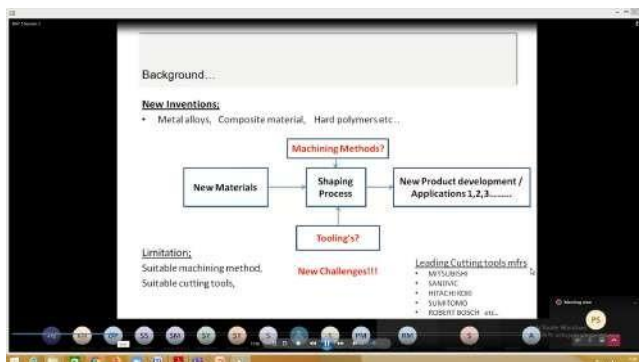
Technical session-14:

Topic: **Power of Artificial Intelligence in PDM**



Technical session-15:

Topic: **Development of Tooling's in Hard Turning of High-Chrome White Cast Iron.**



Day-6 &Date: 17-10-2020



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Technical session-16:

Topic: Autonomous Driving.

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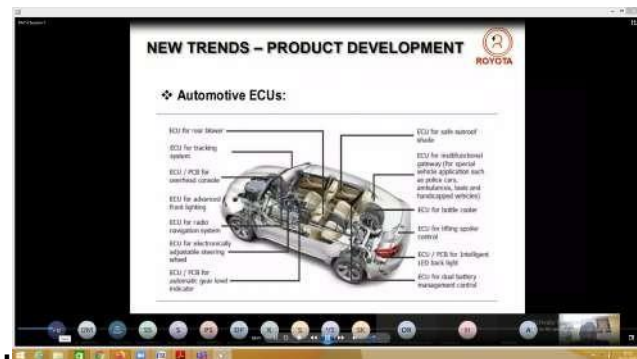
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Technical session-17:

Topic: Recent Trend and Challenges in New Product Development.





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Short Term Training

Programme "RECENT TRENDS & CHALLENGES FOR NEW PRODUCT DEVELOPMENT"

REPORT

On

**AICTE Sponsored Short Term Training Programme
on "RECENT TRENDS & CHALLENGES FOR NPD"**

At

**THE OXFORD COLLEGE OF ENGINEERING, BENGALURU
STTP-2 FROM 02nd November to 07th November**

2020 Date: 02nd November, 2020

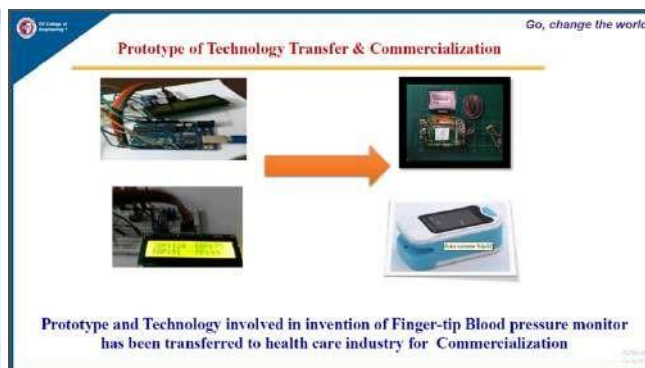
Inauguration Session

Inaugurated by Dr. K N Subramanya, principal, R V College of Engineering, Bengaluru, as a Chiefguest, followed by Key note address on the Design Thinking Approach to product Development.

Day-1 & Date: 12-10-2020

Technical Session-1:

Topic: Growth Through Innovation and New Product Development



Technical Session-2:

Topic: Innovation and creativity for NPD



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"Everything is Design"

Tool for
Expression of self



Tom Peters



WHAT IS DESIGN

Technical Session-3:

Topic: Dr. Raju B R



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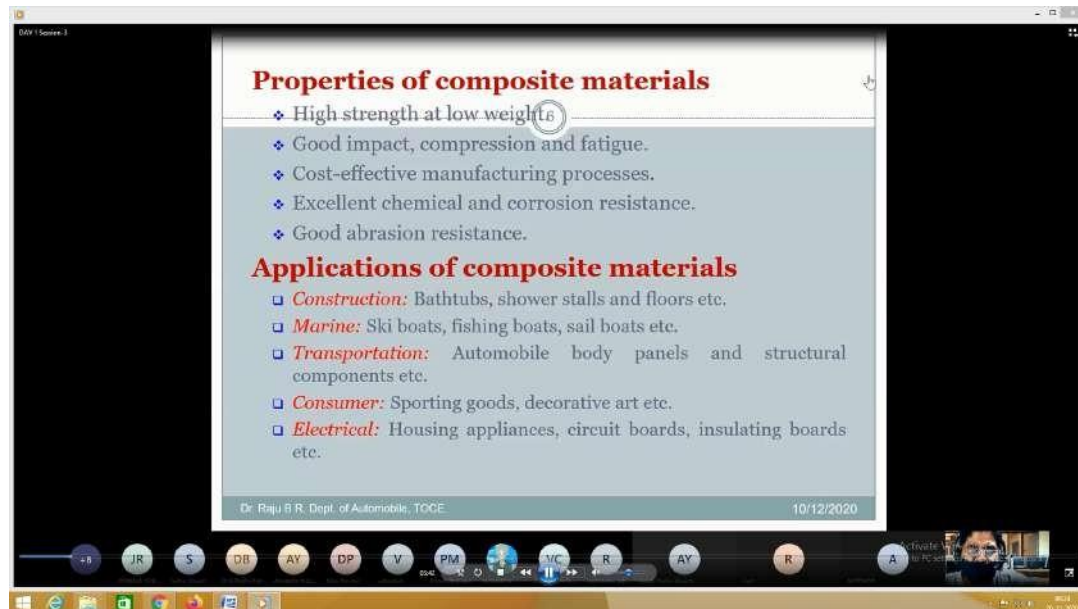
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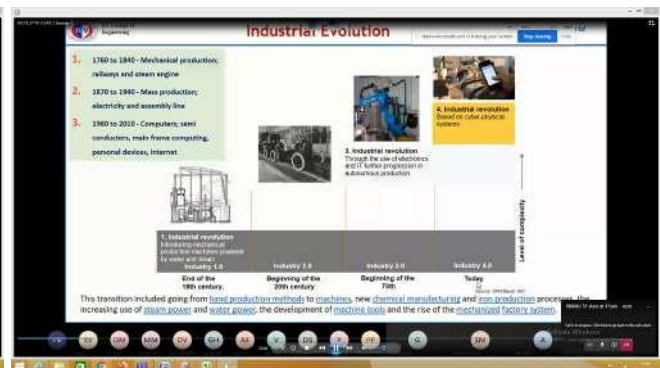
Programme "RECENT TRENDS & CHALLENGES FOR NEW PRODUCT DEVELOPMENT"



Day-2 & Date: 03-11-2020

Technical session-4:

Topic: Internet of Things



Technical session-5:

Topic: Innovation in Future Batteries



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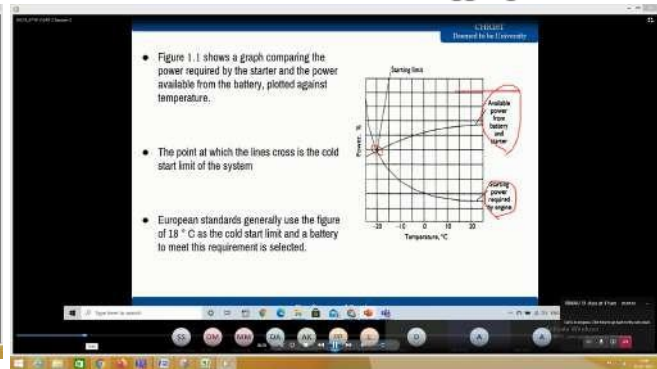
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Technical session-6:

Topic: Idea to invention for the NPD



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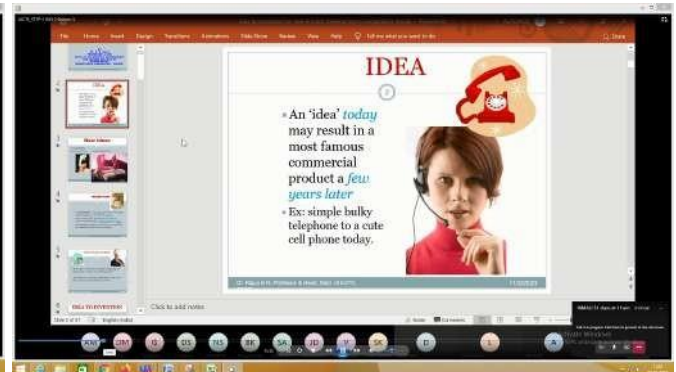
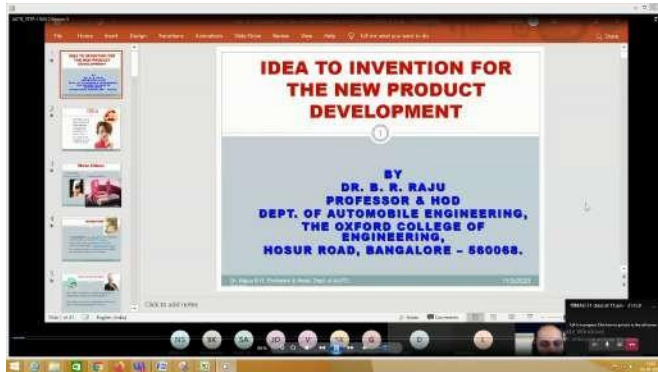
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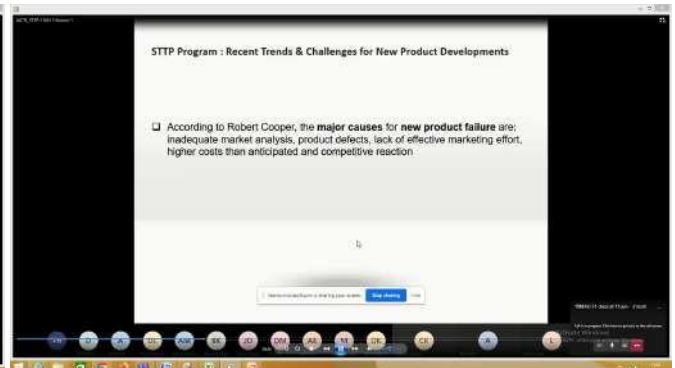
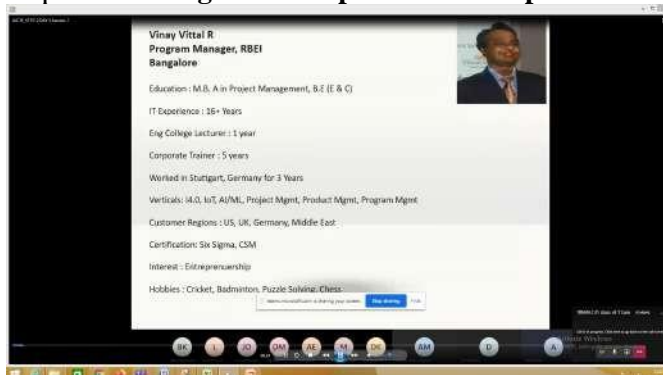
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Day-3 & Date: 04-11-2020

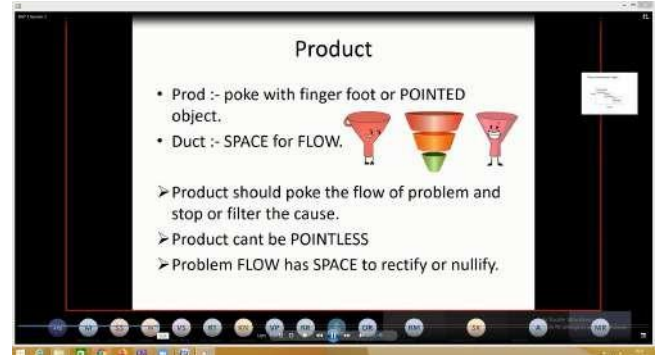
Technical session-7:

Topic: Challenges in New product development



Technical session-8:

Topic: Investigation of Mechanical properties on Hybrid fiber with filler material.



Technical session-9:

Topic: Impact of Industrial Design on New Product Development



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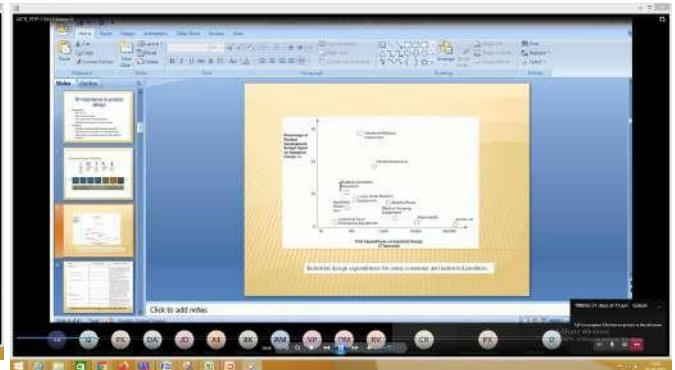
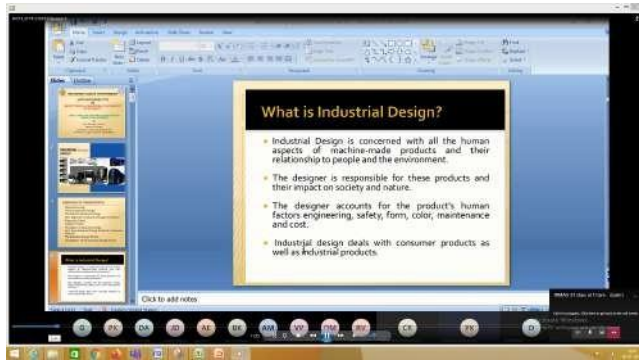
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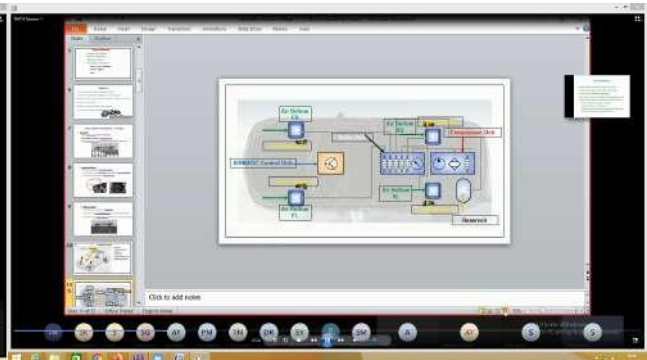
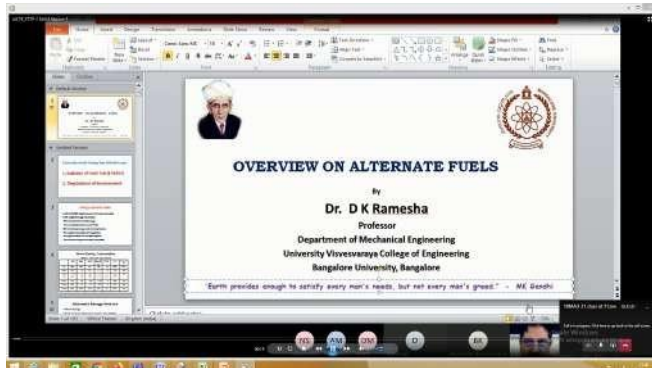
Short Term Training

Programme "RECENT TRENDS & CHALLENGES FOR NEW PRODUCT DEVELOPMENT"



Day-4 & Date: 05-11-2020

Technical session-10:



Technical session-11:

Topic: New Trends in Diesel Engines/vehicles for meeting Indian Exhaust gas Emission Norms



Technical session-12:

Topic: New Product Development in Automotive Industries

Dept. of Automobile Engg, The oxford college of Engg, Bangalore

Page 6



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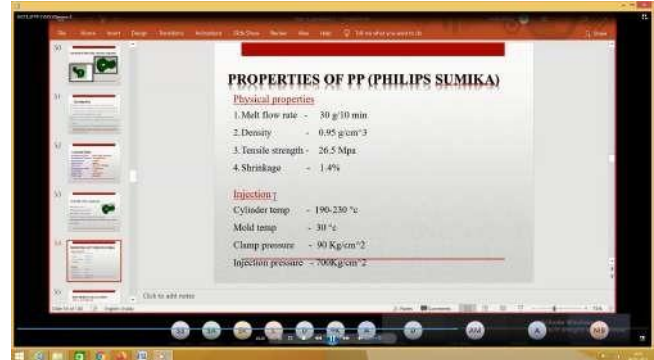
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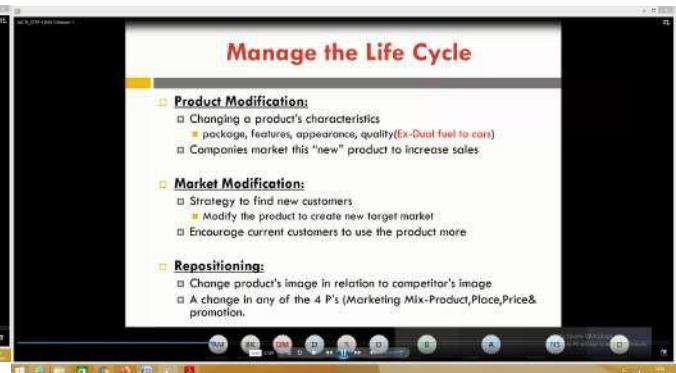
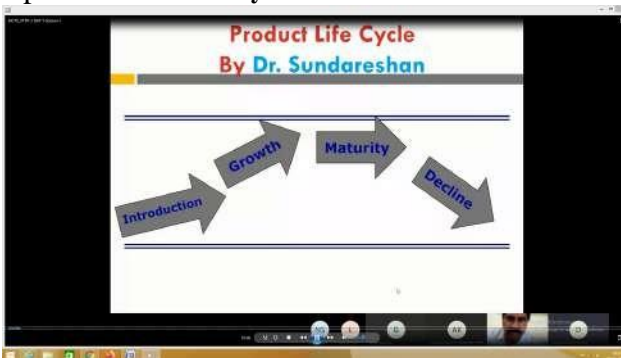
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Day-5 & Date: 06-12-2020

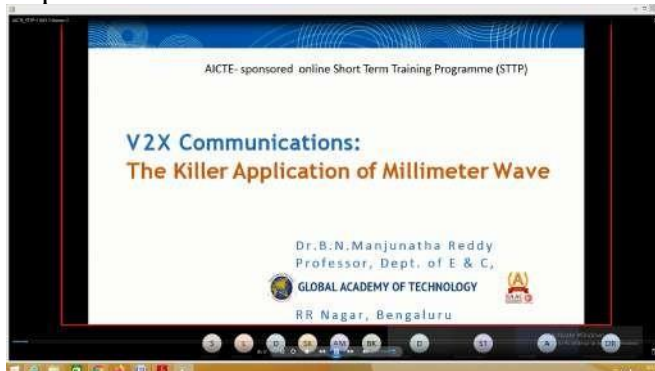
Technical session-13:

Topic: Product Life Cycle



Technical session-14:

Topic: V2X Communications



Technical session-15:

Topic: Trends & Challenges in NPD.



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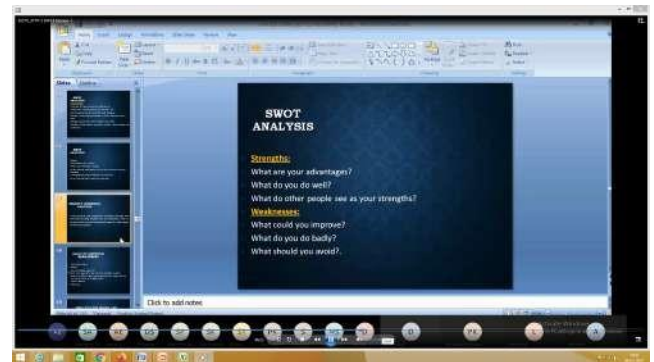
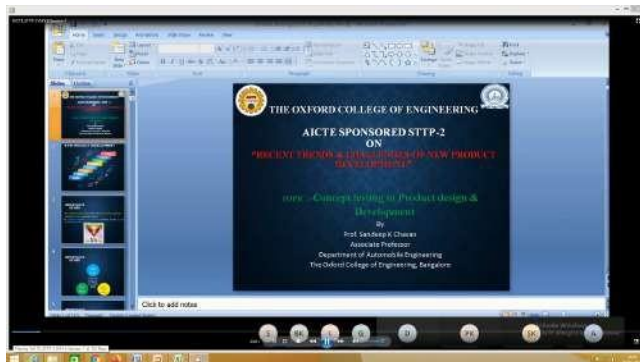
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Day-6 & Date: 17-10-2020

Technical session-16:

Topic: Concept Testing in Product Design and Development.



Technical session-17:

Topic: Need for Newer Manufacturing Technologies For Product Development.

Resource Person: Dr. M S Ganesha Prasad Dean, Prof & Head Dept. of Mechanical Engg, NHCE



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AICTE Sponsored

Short Term Training Programme

“RECENT TRENDS & CHALLENGES FOR NEW PRODUCT DEVELOPMENT”

REPORT

On

**AICTE Sponsored Short Term Training Programme
on “RECENT TRENDS & CHALLENGES FOR NPD”**

At

**THE OXFORD COLLEGE OF ENGINEERING, BENGALURU
STTP-3 FROM 23rd November to 28th November 2020**

**Date: 07th December, 2020 Inauguration
Session**

Inaugurated by Dr. Manjunatha, principal, New Horizon College of Engineering, Bengaluru, as a Chief guest, followed by Key note address on Patents and Intellectual Property Rights.

Day-1 & Date: 07-12-2020

Technical Session-1:

Topic: Patents and Intellectual Property Rights





PATENTS AND INTELLECTUAL PROPERTY RIGHTS

Copyright and Related Rights

Ownership of Rights

- Literary – author
- Drama – Dramatist
- Music – Composer
- Artistic work – Artist e.g. Painter, sculptor, architect
- Photograph – Photographer
- Author of Computer Programme – Person who causes the work to be created
- Cinematograph film – producer
- Sound Recording - producer

Technical Session-2:

Topic: Manufacturing of Micro Product and Challenges



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Technical Session-3:



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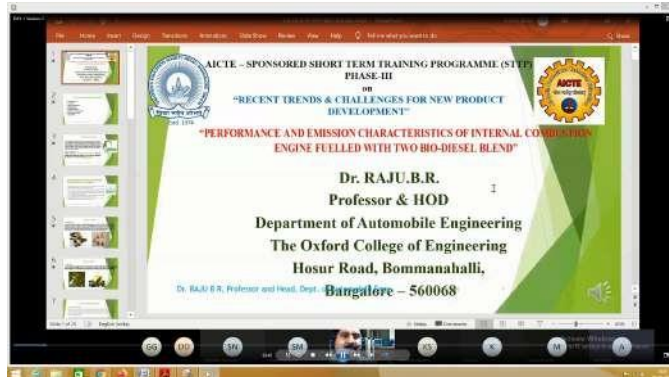
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Topic: "PERFORMANCE AND EMISSION CHARACTERISTICS OF INTERNAL COMBUSTION ENGINE FUELLED WITH TWO BIO-DIESEL BLEND"



ESTERIFICATION AND TRANSESTERIFICATION

- The oil blend undergoes esterification process producing acid esters.
- Followed by transesterification process is carried out which yields methyl esters which is nothing but, Bio diesel.
- Separation And Purification:**
- The product obtained is allowed to settle for 24hrs.
- The 3 layers of catalyst, glycerol and biodiesel is significantly formed.
- The collected biodiesel is demulsitized, purified and filtered.



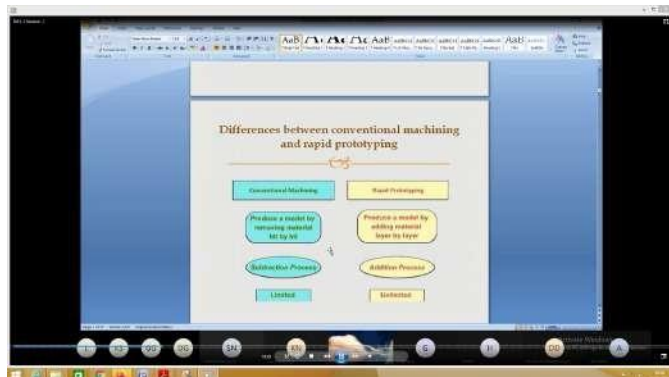
From Dr. Raju B.R., Professor and Head, Dept. of Automobile Engg., The Oxford College of Engineering, Bangalore - 560068. 12/9/2020
Esterification reaction



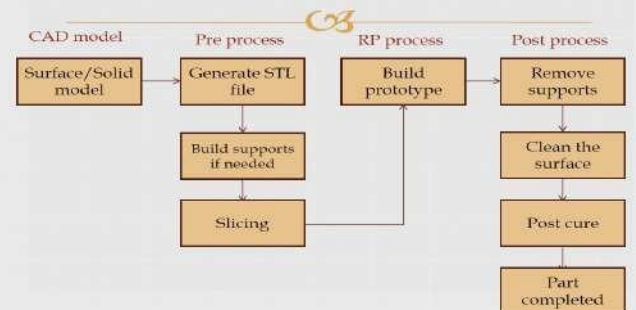
Day-2 & Date: 08-12-2020

Technical session-4:

Topic: Rapid Prototyping

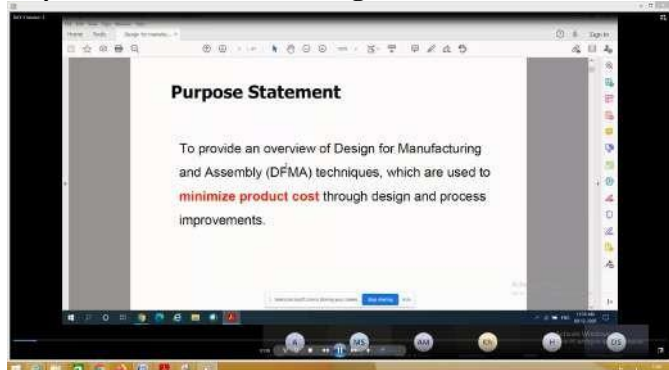


Workflow of RP processes



Technical session-5:

Topic: Introduction to Design for (Cost Effective) Assembly and Manufacturing



Design for Assembly

Definition: DFA is the method of design of the product for ease of assembly.

**'...Optimization
of the part/system
assembly'**



DFA is a tool used to assist the design teams in the design of products that will transition to productions at a minimum cost, focusing on the number of parts, handling and ease of assembly.



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Technical session-6:

Topic: Product Specifications in Product design & Development



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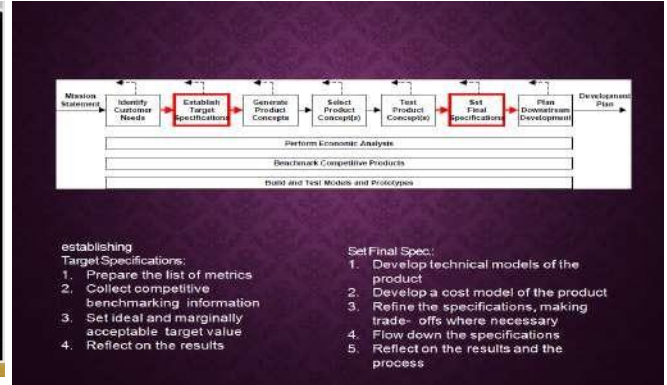
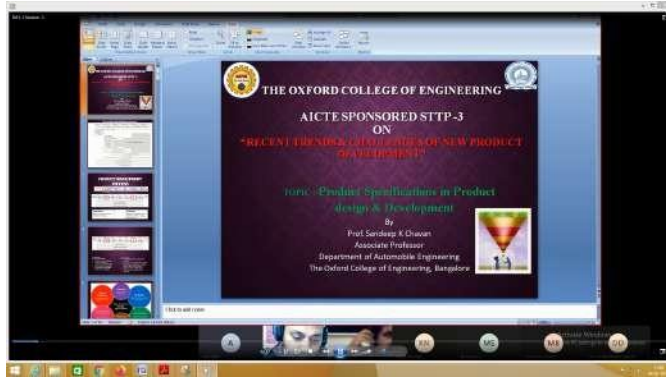
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Day-3 & Date: 09-12-2020

Technical session-7:

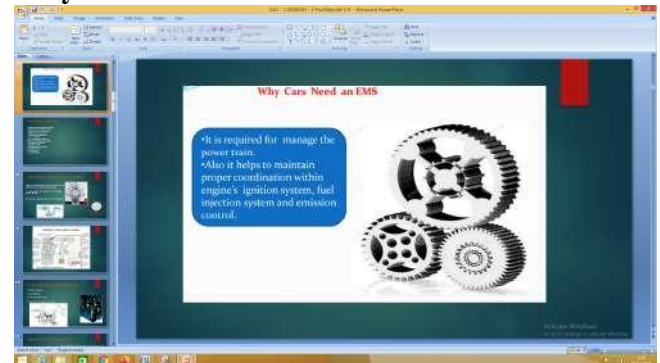
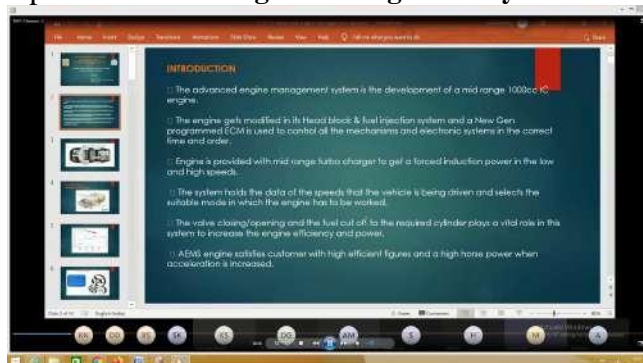
Topic: CONVERSION FROM CHAIN TYPE FINAL DRIVE TO SYNCHRONOUS BELT DRIVE



	CHAIN DRIVE	BELT DRIVE	SHAFT DRIVE
EFFICIENCY	98%	98%	100%
MANUFACTURING COST	Low	Moderate	High
LUBRICATION	Required frequently	Not required	Required
MAINTENANCE	Difficult	Minimum	Maintenance free
REPLACEMENT	Need frequent adjustment	Need replacement after 1,00,000 kms	No replacement

Technical session-8:

Topic: Advanced Engine Management Systems and its safety features in Automotive Vehicles.



Technical session-9:

Topic: MEMS Technology

Resource Person: Mr G N Gurunagendra, Asso Professor, GAT , Bengaluru



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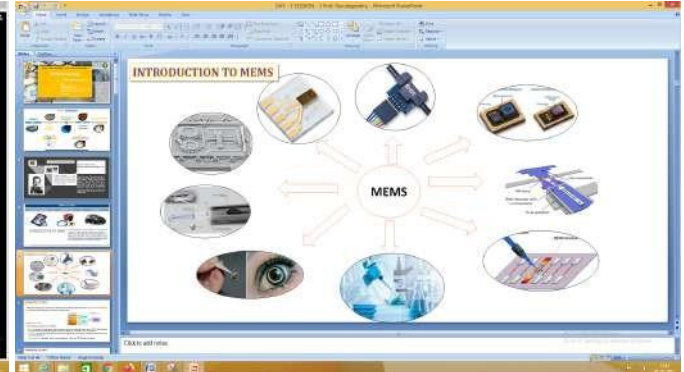
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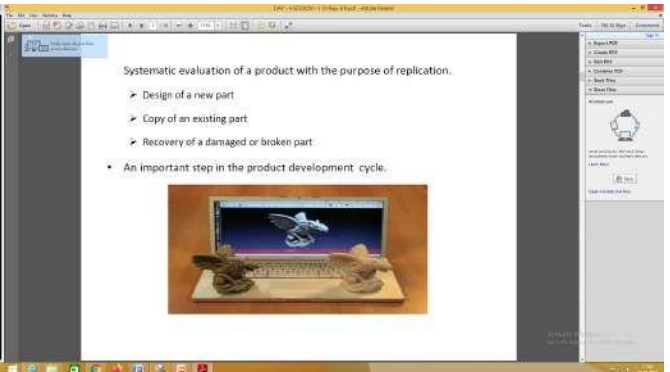
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Day-4 & Date: 10-12-2020

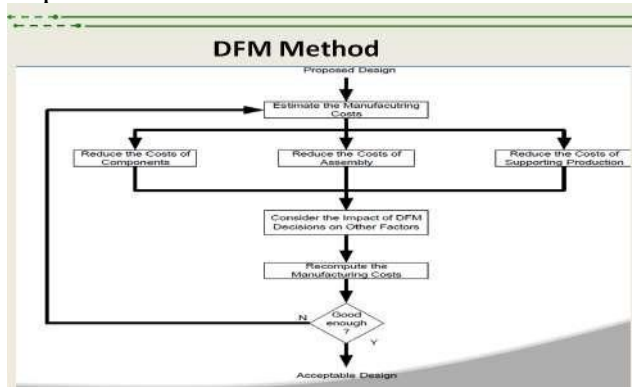
Technical session-10:

Topic: Reverse Engineering and its Applications



Technical session-11:

Topic: DESIGN FOR MANUFACTURING AND ASSEMBLY



Technical session-12:

Topic: NPD and NPI with 3D Printing



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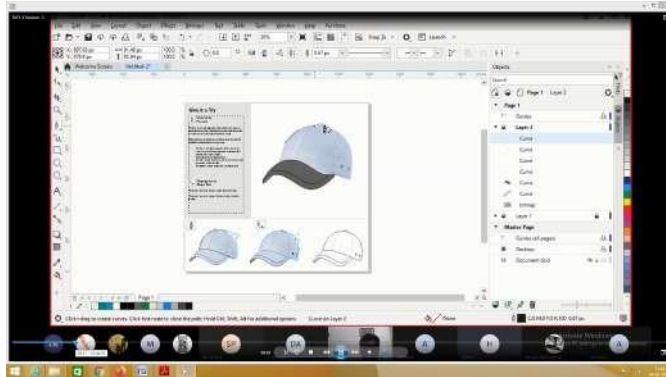
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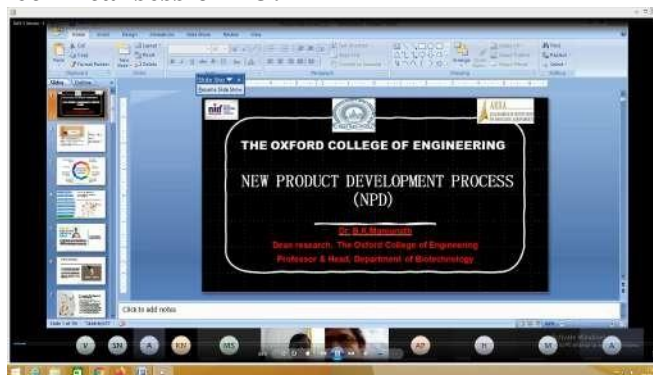
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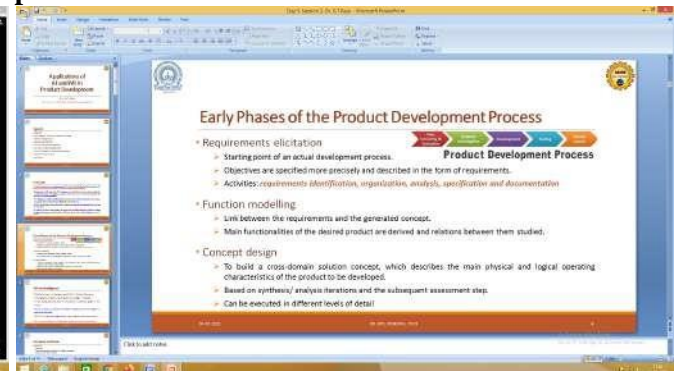
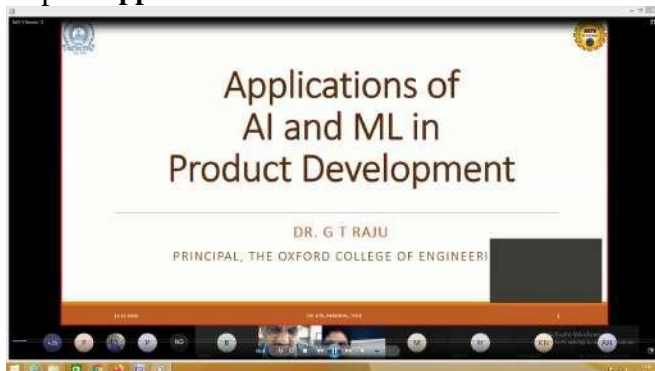
Day-5 & Date: 11-12-2020

Technical session-13:



Technical session-14:

Topic: Applications of AI and ML in Product Development



Technical session-15:

Topic: Overview of NPD ,Development and its Branding Techniques



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Day-6 & Date: 12-10-2020

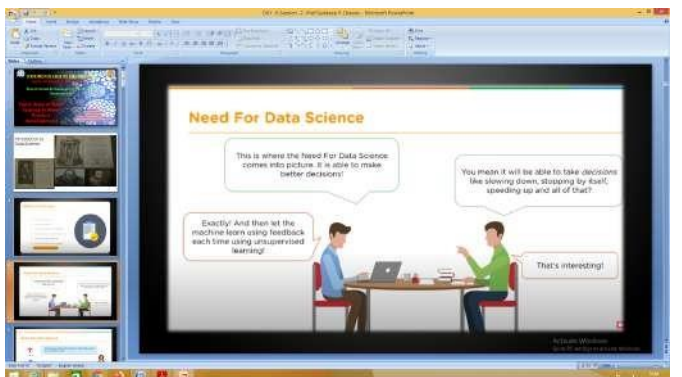
Technical session-16:

Topic: Process Design for Ergonomics in Automobile Production.



Technical session-17:

Topic: Role of Data Science in NPD





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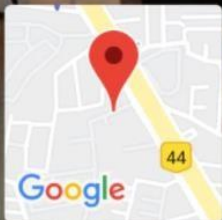
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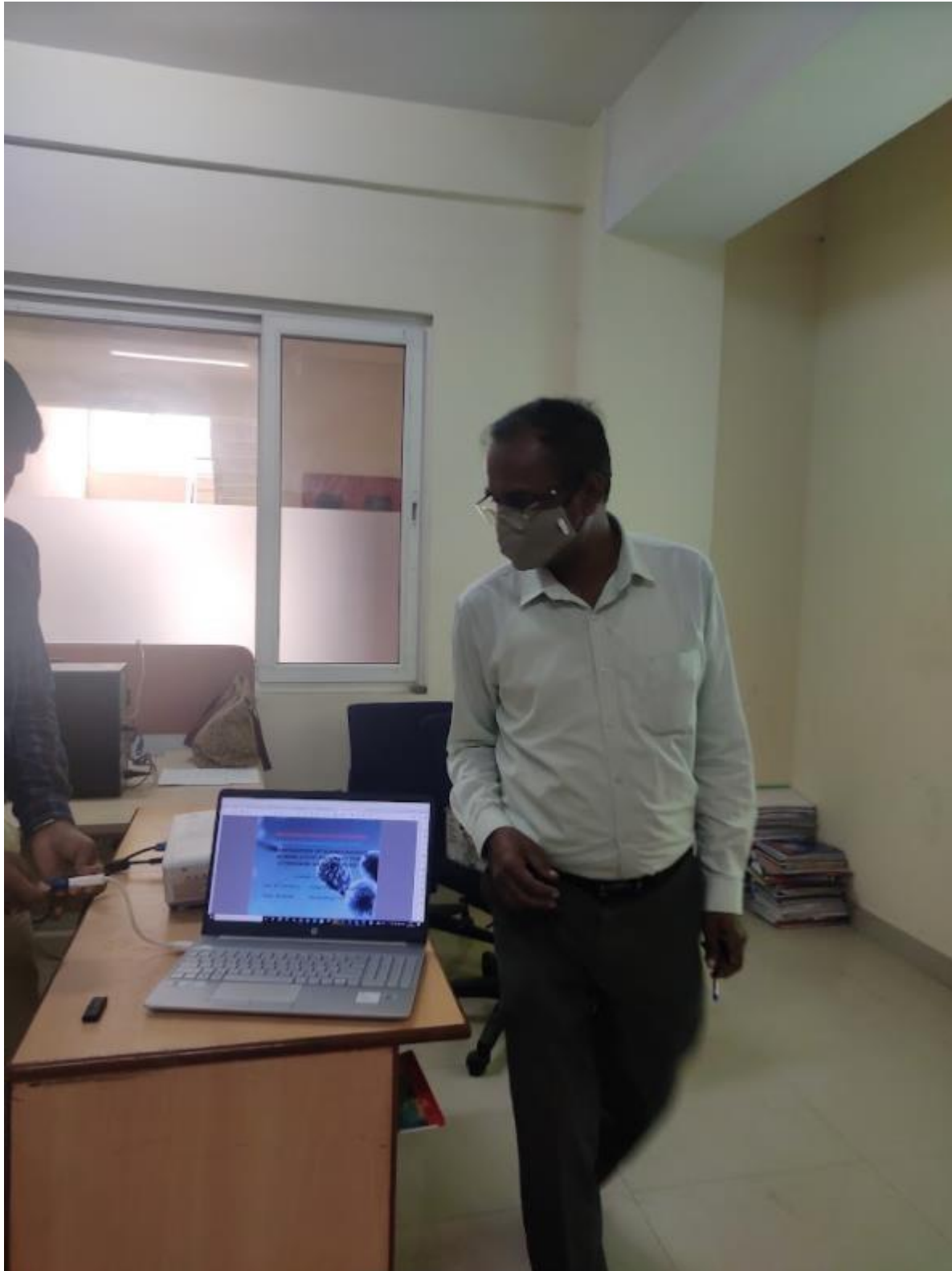
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