CHILDREN'S EDUCATION SOCIETY (Regd.)
THE OXFORD COLLEGE OF ENGINEERING
(Recognised by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi,
Approved by A.I.C.T.E. New Delhi,
Recognised by UGC Under Section 2(f)
Bommanahalli, Hosur Road, Bangalore - 560 068.
Ph: 080-61754601/602, Fax: 080 - 25730551
E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

Quality assurance initiatives of the institution

Conferences, Seminars, Workshops on quality conducted

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PRINCIPAL
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Bommanahalli, Hosur Road
Bengaluru-560 068

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SUMMARY

The IQAC encourages, promotes and supports the departments to organise and conduct Seminars/ Workshops/Conferences with participating audiences as students and faculties to update knowledge and gain insight on recent trends and technologies. Orientation programmes are also being organised by the IQAC for teachers and students on quality related themes and promotion of quality circles.

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Conferences, Seminars, Workshops on quality conducted
2016-17

Sl. No.	Title of the Conferences, Seminars, Workshops on quality	Date	Duration	Nature of the activity	Name of the department
1	Renewable Energy and Grid Integration Challenges and Issues	20 April-22 April, 2017	3 Days	workshop	EEE

PRINCIPAL
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bengaluru-560 068

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560 068
Website:www.theoxford.edu Email : enghodeee@theoxford.edu
(Approved by AICTE, New Delhi, Accredited by NBA, NAAC New Delhi & 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

THE OXFORD COLLEGE OF ENGINEERING

Bommanahalli, Hosur Road, Bangalore-560068

General information

"Vidya Sarvatra Shobhate"

The Oxford Group of Educational Institutions Established in the year 1974 under the aegis of Children's Education Society (Regd.) has proved a beckon to knowledge seeker not only all over the country but also all over the world. It made a humble beginning with 24 students and 2 teachers, but during the last four decades, The Oxford Group has seen an immense growth of establishing Medical, Engineering, Dental Institutions under the great guidance and leadership of Sri S Narasa Raju (Late) and Sri S.N.V.L NarasimhaRaju.

Today, The Oxford Group of Institutions has 32 Institutes with more than 18,000 students and 2,500 faculties, in more than 85 academic streams from Pre-Nursery to Post-Graduate & Doctoral courses including Medical Science, Dentistry, Nursing, Pharmacy, Physiotherapy, Engineering, Computer Education, Management, Life Sciences and Law. Within an intensely competitive and disciplined environment, the schools and colleges have adopted a dynamic, global, high quality, creative and communicative approach in education as well as research and development. Keeping abreast with modern Technologies & developments, the Institutions are constantly restructuring the infrastructure as well as its laboratory facilities, research, consultancy and education/training facilities to meet the global challenges.

About EEE Department :

The Department of Electrical and Electronics Engineering, was started in the year 2001. It offers one Under-Graduate programme (B.E.), two Post-Graduate programmes (M.Tech. in Power Electronics , Computer Applications in Industrial Drives) and also research programmes (Ph.D.) in the various fields of Electrical and Electronics Engineering. the department has grown not only in terms of student and faculty strength, but also in improving the laboratory facilities for the teaching and research purposes. Thus, the department has dedicated and state of the art teaching / research laboratories. The department is reaccreditated by NBA for three years from 2015-2018.The faculty members have strong sense of responsibility to provide the finest possible education for both graduate and undergraduate students. The academic strength of the faculty is reflected by the alumni, many of whom are in the top echelons of industry and academia both in India and abroad.

Grid connected solar power generation is an new concept in the country. Very few grid connected solar PV power plants have been set up.

Experienced man power to design, construct, manage and maintain grid connected solar power plants is not available in country.

Training and education including Hands on training and workshops are aspects is necessary to be imparted.

This workshop program is set up jointly by the Oxford College of Engineering (EEE dept) with an objective to fulfill the need for trained man power in Grid connected power plants.

Objective:

The objective of this program is to build man power capability at technical and operation level for grid connected solar power generation, through training, education and Hands on Workshops at operational solar PV grid connected plant to generate trained and qualified man power.

Target Audience :

- UG and PG students
- Faculty members who are doing research on solar (PV), wind domain.

Speakers:

Dr. H. NAGANAGOUDA
Director, National Training centre for solar technology, KPCL.

Mr. M.K. NARAYAN
Rtd. General Manager, Exide Batteries.

Mr. SHYAM SUNDAR
Country head, studer inverters.

Course overview:

- An overview of Renewable energy (RE) forms.
- Site selection and system design
- Inverters ,charge controllers, battery banks
- Sizing of solar systems
- Installation, commissioning, operation and maintenance standards
- Safety in installation and commissioning
- Quality management , grid connectivity
- On site visit to solar PV module and Hydro power plant

Workshop Fees

UG & PG Students : 750/- INR
Faculty Members : 1000/-INR

Chief Patron:

Shri. S.N.V.L.Narashimha Raju
President–CES The Oxford Group of Institutions

Chief Convenors :

1. Dr. R.V.Praveena Gowda Principal – TOCE
2. Dr. R.J.Anandhi Vice Principal- TOCE

Co-ordinators:

1. Prof. Deepa . R
2. Prof. Swapna . M
3. Prof. Thiruvona Sundari .D
4. Ms. Chandrakala K N (PG Student Co-ordinator)

Contact Details:

Jayakumar .N
Assoc. Prof/EEE
TOCE, Bangalore-68.
8050837275
E-mail: enghodeee@theoxford.edu

Children's Education Society®

THE OXFORD COLLEGE OF ENGINEERING

Bommanahalli, Hosur Road, Bangalore-68.

With Gracious Blessings from

(Late)Shri.S.NarasaRaju
Founder Chairman
Children's Education Society, Bangalore

Shri. S.N.V.L. NarasimhaRaju
The Chairman
Children's Education Society, Bangalore

Department of Electrical & Electronics Engineering

Cordially invite you for the

Inauguration of

Three Day Workshop

on

"RENEWABLE ENERGY & GRID INTEGRATION CHALLENGES AND ISSUES"

Chief Guest : **Dr. H. Naganagouda, Director, National Training Centre for Solar Technology, KPCL**

On 20th April 2017(Thursday) at 10.00 A.M

Venue : - New Building, IV Floor- SEMINAR HALL

Presided by

Dr.R.V.Praveena Gowda

Principal, TOCE

Students & Faculty members-EEE

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(Approved by AICTE, New Delhi, Accredited by NBA, New Delhi & Affiliated to VTU, Belgaum)

THREE DAY WORKSHOP ON

"RENEWABLE ENERGY & GRID INTEGRATION CHALLENGES AND ISSUES"

20TH APRIL TO 22ND APRIL 2017

Venue : NEW BUILDING IV FLOOR SEMINAR HALL (ISE)

Schedule

Day &Date	Timings	Subjects to be covered	Name of the Resource Person
Day1 **20/4/2017**	9.00 to 9.45am	Registration	
	9.45 to 10.45am	Inauguration	
	10.45 To 11.00am	Tea Break	
	11.00 to 1.00 pm	Technical Session 1 An overview of energy, RE sources	**Dr.H.NAGANAGOUDA** Contact No: 08748899429 Email: hnaganagouda@gmail.com
	1.00 to 1.45 pm	Lunch Break	
	1.45 to 2.45 pm	Technical Session 2 Design of roof top solar power plant system grid connected with net metering	
	2.45 to 3.00 pm	Tea Break	
	3.00 to 4.00 pm	Technical session 3 Design of solar grid connected power plant systems	
Day2 **21/4/2017**	Site visit to Solar 5 MW & 10 MW Power Plant		
Day3 **22/4/2017**	9.15 to 10.45am	**Technical Session 1** Batteries & its applications	**Mr. M.K.NARAYAN** Contact No:9845499294 Email id: narayanbg@yahoo.com
	10.45 to 11.00am	Tea Break	
	11.00 to 1.00 pm	Continuation	
	1.00 to 1.45 pm	Lunch Break	
	1.45 to 2.45 pm	**Technical Session 2** Fundamentals of inverters, types, design/Sizing of inverter charge controller	**Mr. SHYAM SUNDAR** Contact No: 994580111 Email id: shyam.sundar@studer-innotec.com
	2.45 to 3.00 pm	Tea Break	
	3.00 to 4.00 pm	Discussion & Valedictory Function	

KPCL
ಕರ್ನಾಟಕ ವಿದ್ಯುತ್ ನಿಗಮ ನಿಯಮಿತ
KARNATAKA POWER CORPORATION LTD.,
(A premier power generating company of Government of Karnataka)
CIN U85110KA1970SGC001919

ಸಂಖ್ಯೆ: ಎ1 ಎ6 ಎ ಸಿಸಿ:೭೯ | 160 — 20-04-2017

ಇವರಿಗೆ:
ಪ್ರೊಫೆಸರ್ & ಹೆಚ್.ಒ.ಡಿ.
ದಿ ಆಕ್ಸ್‌ಫರ್ಡ್ ಕಾಲೇಜ್ ಆಫ್ ಇಂಜಿನೀಯರಿಂಗ್
ಬೊಮ್ಮನಹಳ್ಳಿ, ಹೊಸೂರು ರಸ್ತೆ,
ಬೆಂಗಳೂರು-560 068
ಮೊಬೈಲ್:80506 28377

ಮಾನ್ಯರೆ,

ವಿಷಯ: ಶಿವಸಮುದ್ರಂ (ಬ್ಲಫ್)ನಲ್ಲಿರುವ ಸೋಲಾರ್ ಫೋಟೋ ವೋಲ್ಟಾಯಿಕ್ ಪ್ಲಾಂಟನ್ನು ಸಂದರ್ಶಿಸಲು ಅನುಮತಿ – ಕುರಿತು.

ಉಲ್ಲೇಖ: ನಿಮ್ಮ ಪತ್ರ ಸಂಖ್ಯೆ: TOCE/EEE/2017-18 ದಿನಾಂಕ:18.04.2017.

*****

ಯೋಜನಾ ಪ್ರದೇಶಗಳನ್ನು ಸಂದರ್ಶಿಸಲು ತಾವು ಬರೆದುಕೊಂಡ ಉಲ್ಲೇಖ ಪತ್ರದಲ್ಲಿ ತಿಳಿಸಿರುವಂತೆ, ಮಂಡ್ಯ ಜಿಲ್ಲೆಯ ಮಳವಳ್ಳಿ ತಾಲ್ಲೂಕಿನ ಶಿವಸಮುದ್ರಂ (ಬ್ಲಫ್)ನಲ್ಲಿರುವ ಸೋಲಾರ್ ಫೋಟೋ ವೋಲ್ಟಾಯಿಕ ಪ್ಲಾಂಟನ್ನು ಸಂದರ್ಶಿಸಲು ದಿನಾಂಕ:**21.04.2017**ರಂದು ನಿಮ್ಮ ಕಾಲೇಜಿನ ಅಂತಿಮ ವರ್ಷದ ಬಿ.ಇ. ಎಲೆಕ್ಟ್ರಿಕಲ್ & ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್ ವಿಭಾಗದ **95** ವಿದ್ಯಾರ್ಥಿಗಳು ಹಾಗೂ ನಾಲ್ವರು ಉಪನ್ಯಾಸಕರು/ಸಿಬ್ಬಂಧಿ ಸೇರಿ ಒಟ್ಟು **ತೊಂಬತ್ತೊಂಬತ್ತು** ಸದಸ್ಯರಿಗೆ ವೀಕ್ಷಿಸಲು ಈ ಮೂಲಕ ಅನುಮತಿ ನೀಡಲಾಗಿದೆ. (ಜಲವಿದ್ಯುತ್ **ಉತ್ಪಾದನಾ ಕೇಂದ್ರಕ್ಕೆ ತಾಂತ್ರಿಕ ಕಾರಣದಿಂದ ಅನುಮತಿ ನೀಡಲಾಗುತ್ತಿಲ್ಲ**).

ಈ ಅನುಮತಿಯು ಕೆಳಗಿನ ನಿಬಂಧನೆಗಳಿಗೆ ಒಳಪಟ್ಟಿರುತ್ತದೆ.

1) ಸಂಸ್ಥೆಯ ಮುಖ್ಯಸ್ಥರಿಂದ ಪಡೆದಿರುವ ಗುರುತಿನ ಚೀಟಿಯನ್ನು (Identity card) ಹಾಜರು ಪಡಿಸಲು ಸೂಚಿಸಲಾಗಿದೆ. ಗುರುತಿನ ಚೀಟಿ ಇಲ್ಲದಿದ್ದ ಪಕ್ಷದಲ್ಲಿ ಮುಖ್ಯಸ್ಥರಿಂದ ಧೃಢೀಕರಿಸಿರುವ ವಿದ್ಯಾರ್ಥಿಗಳ ಮತ್ತು ಉಪನ್ಯಾಸಕರ ಹೆಸರುಗಳ ಪಟ್ಟಿಯನ್ನು ಕಡ್ಡಾಯವಾಗಿ ಹಾಜರು ಪಡಿಸಲು ಸೂಚಿಸಲಾಗಿದೆ ಹಾಗೂ ಆ ಪಟ್ಟಿಯಲ್ಲಿರುವವರು ಭಾರತೀಯ ಪೌರರೆಂದು ಧೃಢೀಕರಿಸಬೇಕು. ಇಲ್ಲದ ಪಕ್ಷದಲ್ಲಿ ಅನುಮತಿಯನ್ನು ನಿರಾಕರಿಸಲಾಗುವುದು. <u>ವಿದೇಶಿಯರಿಗೆ ಪ್ಲಾಂಟನ್ನು ಸಂದರ್ಶಿಸಲು ಅನುಮತಿ ನೀಡಲಾಗುವುದಿಲ್ಲ.</u>

2)ಯೋಜನಾ ಪ್ರದೇಶದಲ್ಲಿ ಯಾವುದೇ ಸ್ಥಳಗಳನ್ನು ವಿಡಿಯೋ/ಮೊಬೈಲ್/ಕ್ಯಾಮರಗಳಲ್ಲಿ ಸೆರೆಹಿಡಿಯುವುದನ್ನು ನಿಷೇಧಿಸಲಾಗಿದೆ.

ಸಂದರ್ಶಿಸುವ ತಂಡವು ಪ್ಲಾಂಟನ್ನು ಪ್ರವೇಶಿಸಿದ ನಂತರ ಭೇಟಿಯ ವ್ಯವಸ್ಥೆಗಾಗಿ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನೀಯರ್ (ವಿದ್ಯುತ್), ಕೆಪಿಸಿಎಲ್, ಶಿವಸಮುದ್ರಂ ಇವರನ್ನು ಸಂಪರ್ಕಿಸುವುದು.

ವಂದನೆಗಳೊಂದಿಗೆ,

ತಮ್ಮ ವಿಶ್ವಾಸಿ,
ಕರ್ನಾಟಕ ವಿದ್ಯುತ್ ನಿಗಮ ನಿಯಮಿತದ ಪರವಾಗಿ,

ಉಪ ಪ್ರಧಾನ ವ್ಯವಸ್ಥಾಪಕರು(ಕಾರ್ಪೊರೇಟ್ ಕಮ್ಯುನಿಕೇಷನ್ಸ್)

EE(Solar & ODY)
May be permitted to visit the 10MW solar plant
AEE(E)

'ಶಕ್ತಿ ಭವನ', ನಂ. 82, ರೇಸ್ ಕೋರ್ಸ್ ರಸ್ತೆ, ಬೆಂಗಳೂರು-560 001. ದೂರವಾಣಿ : 080-2225 6568 ಫ್ಯಾಕ್ಸ್ : 080-2225 2144
'Shakthi Bhavan', # 82, Race Course Road, Bangalore-560 001. Tel. : 080-2225 6568 Fax : 080-2225 2144
E-mail : kpclcccmpa@karnatakapower.com Website : www.karnatakapower.com

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ATTENDANCE LIST ON 20-4-17 AND 22-4-17

SL NO	NAME OF STUDENTS	USN	20-4-17		22-4-17	
			FN	AN	FN	AN
	B E(EEE)					
1.	AKASH V M	1OX14EE008				
2.	SYED AL FARHAN	1OX14EE102				
3.	YUVA RANJINI	1OX14EE0113				
4.	CHETHAN G	1OX14EE023				
5.	ESHWARAN R A	1OX14EE030				
6.	HARSHITHA J	1OX14EE034				
7.	JENNIFER S	1OX14EE038				
8.	KEERTHANA B	1OX14EE042				
9.	KESHAV DUTTA S	1OX14EE043				
10.	LIKITH B V	1OX14EE044				
11.	MANOJ KUMAR M	1OX14EE050				
12.	MERLIN SHIBU	1OX14EE052				
13.	MITALI	1OX14EE053				
14.	MITHUN	1OX14EE054				
15	MOHAMMED MURTAZA	1OX14EE055				
16.	MOHAN KUMAR R	1OX14EE056				
17.	NANDAN K E	1OX14EE058				
18.	POOJA NAIK	1OX14EE064				
19.	POOJASHREE B	1OX14EE065				
20.	PRIYANKA SINSINWAR	1OX14EE072				
21.	RACHANA M	1OX14EE073				
22.	RASHMI S	1OX14EE081				
23.	RAVINA	1OX14EE083				
24.	SANIYA FIRDOSE	1OX14EE088				
25	SHANKAR LINGAM	1OX14EE090				
26.	SHASHANK MANJUNATH	1OX14EE091				
27.	SOORAJ GK	1OX14EE098				
28.	SUBASH M	1OX14EE099				
29.	VIJAY. V. G	1OX14EE111				
30.	ARUN KUMAR .T	1OX15EE401				
31	JAYANTH	1OX15EE407				
32.	VIDYA	1OX14EE109				
33.	MADHAN SHETTY	1OX15EE409				
34.	SAHANA	1OX15EE417				

35	SUNIL KUMAR H	1OX13EE098				
36	KIRAN KUMAR I	1OX15EE408				
37	MADHU SUDHAN	1OX14EE045				
38	VINAY KUMAR CS	1OX13EE422				
		MTECH				
39	HIMA JAYARAJ . M	1OX15EPE03				
40	ASHWINI . S	1OX15EPE01				
41	AFROZ PASHA	1OX15ECD03				
42	SHILPA C	1OX15ECD02				
43	ANAND D K	1OX16ECD01				
44	RAGHUVEER	1OX16ECD02				
45	YASHWANTH	1OX15EPE09				
46	SWETHA	1OX16EPE03				
47	NIRIKSHITH BR	1OX16EPE01				
48	SOWMYA HN	1OX16EPE04				
49	NOOR AYISHA	1OX16EPE02				
		PHD				
50	SRIKANTH HP	1OX16PEJ07				

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Date: 21-04-17

TO,

KPCL

SHIVANASAMUDRA

KARNATAKA

FROM,

HOD, EEE DEPT

THE OXFORD COLLEGE OF ENGINEERING

BANGALORE

Respected Sir,

SUBJECT: Requesting to allow students to visit Solar Photovoltaic power plant

As per above subject , the Student USN:

Studying in our college in 3rd year BE (EEE DEPT). He/She has lost the College ID card. Please allow him to visit the plant. Please do the needful and oblige.

Thanking You,

Yours Faithfully,

HOD/EEE 21/4/17

Professor & Head, Dept. of E&E
The Oxford College of Engineering
Bommanahalli, Hosur Road.
BANGALORE - 560 068.

Children's Education Society ®
THE OXFORD COLLEGE OF ENGINEERING
Hosur Road, Bommanahalli, Bengaluru-560 068
(Approved by AICTE, New Delhi, Accredited by NBA, New Delhi & Affiliated to VTU, Belgaum)

TOCE/EEE/2016-2017

Date: 22th April 2017

Voucher receipt

This is to certify that Dr/Mr./Ms. N.H. NAGANAGOUDA delivered a lecture in three days Workshop on "RENEWABLE ENERGY & GRID INTEGRATION CHALLENGES AND ISSUES" and Rs. 3000/- is paid as remunerations.

Receivers Signature

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THE OXFORD COLLEGE OF ENGINEERING
Hosur Road, Bommanahalli, Bengaluru-560 068
(Approved by AICTE, New Delhi, Accredited by NBA, New Delhi & Affiliated to VTU, Belgaum)

TOCE/EEE/2016-2017

Date: 22nd April 2017

Voucher receipt

This is to certify that Dr/Mr./Ms. SHYAM SUNDAR N S delivered a lecture in three days Workshop on "RENEWABLE ENERGY & GRID INTEGRATION CHALLENGES AND ISSUES" and Rs. 3000/- is paid as remunerations.

Receivers Signature

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(Approved by AICTE, New Delhi, Accredited by NBA, New Delhi & Affiliated to VTU, Belgaum)

TOCE/EEE/2016-2017

Date: 22th April 2017

Voucher receipt

This is to certify that Dr/Mr./Ms. Mr. M.K. NARAYAN delivered a lecture in three days Workshop on "RENEWABLE ENERGY & GRID INTEGRATION CHALLENGES AND ISSUES" and Rs. 3000/- is paid as remunerations.

Receivers Signature

Children's Education Society ®
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Hosur Road, Bommanahalli, Bengaluru-560 068
(Approved by AICTE, New Delhi, Accredited by NBA, New Delhi & Affiliated to VTU, Belgaum)

WORKSHOP CERTIFICATES RECEVING SIGNATURE

SL NO	NAME OF STUDENTS	USN	SIGNATURE OF STUDENTS
		B.E	
1	AKASH V M	1OX14EE008	
2	SYED AL FARHAN	1OX14EE102	
3	YUVA RANJINI	1OX14EE0113	
4	CHETHAN G	1OX14EE023	
5	ESHWARAN R A	1OX14EE030	
6	HARSHITHA J	1OX14EE034	
7	JENNIFER S	1OX14EE038	
8	KEERTHANA B	1OX14EE042	
9	KESHAV DUTTA S	1OX14EE043	
10	LIKITH B V	1OX14EE044	
11	MANOJ KUMAR M	1OX14EE050	
12	MERLIN SHIBU	1OX14EE052	
13	MITALI	1OX14EE053	
14	MITHUN	1OX14EE054	
15	MOHAMMED MURTAZA	1OX14EE055	
16	MOHAN KUMAR R	1OX14EE056	
17	NANDAN K E	1OX14EE058	
18	POOJA NAIK	1OX14EE064	
19	POOJASHREE B	1OX14EE065	
20	PRIYANKA SINSINWAR	1OX14EE072	
21	RACHANA M	1OX14EE073	
22	RASHMI S	1OX14EE081	
23	RAVINA	1OX14EE083	
24	SANIYA FIRDOSE	1OX14EE088	
25	SHANKAR LINGAM	1OX14EE090	
26	SHASHANK	1OX14EE091	
27	SOORAJ	1OX14EE098	
28	SUBASH M	1OX14EE069	
29	VIJAY	1OX14EE111	
30	ARUN KUMAR	1OX15EE401	
31	JAYANTH	1OX15EE407	
32	VIDYA	1OX14EE109	
33	MADHAN SHETTY	1OX15EE409	
34	SAHANA	1OX15EE417	
35	SUNIL KUMAR H	1OX13EE098	
36	KIRAN KUMAR I	1OX15EE408	

37	MADHU SUDHAN	1OX14EE045	
38	VINAY KUMAR CS	1OX13EE422	
39	ABHISHEK SC	1OX14EE005	
40	BHOOMIKA TK	1OX14EE015	
41	DIVYA R	1OX14EE029	
		M. TECH	
42	HIMA JAYARAJ	1OX15EPE03	
43	ASHWINI	1OX15EPE01	
44	AFROZ PASHA	1OX15ECD01	
45	SHILPA C	1OX15ECD03	
46	ANAND	1OX16ECD01	
47	RAGHUVEER KC	1OX16ECD02	
48	YASHWANTH	1OX15EPE09	
49	SWETHA G	1OX16EPE03	
50	NIRIKSHITH BR	1OX16EPE01	
51	SOWMYA HN	1OX16EPE04	
52	NOOR AYISHA	1OX16EPE02	
		PhD	
53	SRIKANTH HP	1OX16PEJ07	

COORDINATOR

HOD

WORKSHOP CERTIFICATES RECEVING SIGNATURE

SL NO	NAME OF FACULTY	SIGNATURE
1	SANDHYA RAI	
2	DEVI VIGHNESWARI	
3	RESNA SR	
4	NALINA KUMARI	
5	RAICHEL RUBY	
6	SUMITHA TL	
7	NAVATHA KUMARI	
8	ARUTH SELVI NAGAMMAI	
9	SOMESWARI T	
10	VIJI K	
11	KAVYASHREE CM	
12	BHUVANESWARI M	
13	JAYAKUMAR N	
14	THIRUVONASUNDARI	
15	DEEPA R	
16	SWAPNA CM	
17	VINUTHA YE	
18	MANJULA C	
19	NISHA C RANI	

COORDINATOR

HOD

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING, BANGALORE- 68

THREE DAY WORKSHOP ON " RENEWABLE ENERGY GRID INTEGRATION CHALLENGES & ISSUES

20.04.17 TO 22.04.17

REGISTRATION DETAILS :

Sl. NO	USNNO	NAME	EMAIL ID	CONTACT NUMBER	FEES	SIGN
01	10X16EPE01	NIRIKSHITH B.R	nirikshith93@gmail.com	9066459560		
02	10X15ECD01	AFROZ PASHA	afroz289@gmail.com	8050327273		
03	10X15EPE03	HIMAJAYARAJ.M	himajayaraj@yahoo.com	9663499660		
04	10X15EPE01	ASHWINI.S	ashveeram4@gmail.com	9066581429		
05	10X15EC003	SHILPA C	Shilpa.cnma@gmail.com	7795252074		
06	10X16EC002	Raghaveera K C	raghaveerkc1@gmail	8197409690		
07	10X16EPE04	Soumya HN.	soumyamanju01@gmail	7848994992		
08	10X16EPE02	Noor Ayisha	noorayisha786@gmail	8884761786		
09	10X16PEJ07	SRIKANTH H.P.	manoshikanthhp@iede.dg	9343482975		
10	10X16EPE03	SHWETHA.G.	Shwetha.gubbehal@gmail.com	9986562992		
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28	10X14EE091	Shashank Manjunath	SHASHANK.M1920@gmail.com	8553272625	700	Shashank
29	10X14EE113	YUVA RANJINI N B	yuvaranjini123@gmail.com	7411029927	700	
30	10X14EE038	Jeneffer.S	jeneffersundarraj@gmail.com	9632896048	700	
31	10X14EE042	KEERTHANA. B	ig.Keerthu@gmail.com	7829458588	700	KeerthanaB
33	10X14EE034	HARSHITHA. J	harshitha.jb@gmail.com	7815005428	700	
34	10X14EE008	Akash.V.M	akash.vm1997@gmail.com	8050977618	700	
35	10X14EE030	Eshvaran. R.A	ambaravaneshwar@gmail.com	9035376981	700	
36	10X14EE050	Manoj Kumar.M	Jammanjkumar151.mk@gmail.com	8105799415	700	
37	10X14EE088	SANIYA FIRDOSE	saniyafirdose1234@gmail.com	7676560606	700	
38	10X14EE005	Abhishek S.C	abhishekegowda350@gmail.com	8861431657	700	
39	10X14EE015	Bhoomika T.K	bhoomika.tk@gmail.com	9449142772	700	Bhoomika
40	10X13EE422	Vinay Kumar C.S.	Vinayreddycs78@gmail.com	9686035043	700	
41	10X14EE090	Shankar Lingam.J	Shankar291296@gmail.com	8548915789	700	
42	10X15EE407	[redacted] JAYANTH	Jayanthc@gmail.com	7829 18 7721	700	
43	10X14EE029	DIVYA.R	divyareddych056@gmail.com	9945998724	700	divyar

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1	10X14EE053	MITALI	raimitali17@gmail.com	9036265041	700-/-	
2.	10X14EE072	PRIYANKA SINSINWAR	priyankashiv333@gmail.com	7204202447		Priyanka
3	10X14EE065	POOJA SHREE.B	poojashreejive@gmail.com	8792341009		
4	10X14EE083	RAVINA	ravinakk7apr@gmail.com	8867620028		
5	10X14EE055	Mohammad Mustaza	mdmammadmustaza7866@gmail.com	7259391849		
6	10X13EE090	Sunilkumar.H	sunilhubli537@gmail.com	9986184705		
7	10X15EE417	SAHANA.S	Sahanasony193@gmail.com	9742056061		Sahana.S
8	10X14EE109	Vidya	Vidyajalgar@gmail.com	9482114329		
9	10X14EE058	NANDAN.K.E	www.nandan1996@gmail.com	7795085940		Nandan K E
10	10X14EE056	Mohan Kumar.R	mohankiran66@gmail.com	9620497477		
11	10X14EE111	VIJAY.V.Y	vijayvg1996.vv@gmail	8197983082		
12	10X14EE081	RASHMI.S	rashmigoudas08@gmail.com	7353334119		
13	10X15EE409	Madhan Shetty.S	madhanshetty.s@gmail.com	8867797029		
14	10X14EE078	SOORAJ GK	sooru.gamezone@gmail.com	8884625771		

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Sl. NO	USNNO	NAME	EMAIL ID	CONTACT NUMBER	FEES	SIGN
15	10X14EE043	Keshavadutta.S	Keshavadutta007@gmail	9066436731		
16	10X15EE408	Kiran Kumar. D	Kiranmickey9045@gmail.	8792245489		
17	10X14EE095	Madhu Sudhan G.S	Madhu9504@gmail.	9901757413		
18	10X14EB052	Merlin Shibu	merlinshibu1d@gmail	9620907063		
19	10X14EE102	Syed Al Farhan	Syedalfarhan@gmail.com	8025014308		
20	10X14EE044	LIKHIT.B.V.	likhit.bv@gmail.com	8970688336		
21	10X14EE023	CHETHAN.G	Chethanapatham@gmail.com	9742534655		
22	10X14EE079	SUBHASH M.	Subhash18.m2014@gmail.com	8553779010		
23	10X14EE054	MITHUN KRISHNAN	mithun6396@gmail.com	8951717024		
24	10X16EC001	Ananda DK	anand_dk_sjp@yahoo.co.in	7611176190		
25	10X15EE401	ARUN KUMAR.T	lionking.arun1994@	9980757388		
26	10X14EE073	RACHANA.M	rachana@gmail.com	9663346688		
27	10X14EE064	Pooja Naik	poojanaik1997.Pn@gmail.com	9066069925		

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Bommanahalli, Hosur Road, Bengaluru –560068.

PARTICIPATION CERTIFICATE

Certified that ~~Mr.~~/Mrs./Ms.....SHWETHA.G.,...M.TECH.[P.E]..... of participated in the Three Day Workshop On ***"Renewable Energy Grid Integration Challenges and Issues"*** *Organized by Department of EEE and ISTE Students chapter from* ***20th April 2017 to 22nd April 2017.***

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Professor & Head, Dept. of EEE.
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Bommanahalli, Hosur Road

Principal
Dr. RV Praveen Gowda
Principal
The Oxford College of Engineering

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PARTICIPATION CERTIFICATE

Certified that Mr./~~Mrs.~~/~~Ms~~.....ANANDA.D.K.,...M.TECH.[CAID]..... of participated in the Three Day Workshop On ***"Renewable Energy Grid Integration Challenges and Issues"*** *Organized by Department of EEE and ISTE Students chapter from* ***20th April 2017 to 22nd April 2017.***

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FEEDBACK FORM OF WORKSHOP "RENEWABLE ENERGY & GRID INTEGRATION CHALLENGES AND ISSUES"

Feedback sheet **DATE:22-04-17**

The purpose of this feedback sheet is to get your views on the format and content of workshop, with a view to refining the material to meet the needs of the institutes, to the maximum extent possible.

Circle the response that most closely reflects your feeling on the statement made. Please use the free text space to help us improve the final programme material from this pilot delivery.

Thank you for your engagement and feedback.

1.1. The overall flow of the workshop was well structured to meet the learning outcomes and to produce the required outputs.

Strongly agree **Agree** **Unsure** **Disagree** **Strongly disagree**

1.2. Two days was the correct amount of time to cover the subject matter of the workshop.

Strongly agree **Agree** **Unsure** **Disagree** **Strongly disagree**

1.3. The executive was adequately briefed in advance of the workshop.

Strongly agree **Agree** **Unsure** **Disagree** **Strongly disagree**

1.4. The purpose of the workshop (why it is being carried out) was clear.

Strongly agree **Agree** **Unsure** **Disagree** **Strongly disagree**

1.5. The objectives/ expected outputs of the workshop were achieved

Strongly agree **Agree** **Unsure** **Disagree** **Strongly disagree**

1.6. The size and timing of the break-out groups were sufficient to enable meaningful discussion of the required topics.

Strongly agree **Agree** **Unsure** **Disagree** **Strongly disagree**

1.7. The room and break out facilities were adequate to meet the requirements of the workshop.

Strongly agree **Agree** **Unsure** **Disagree** **Strongly disagree**

1.8. The individual exercises/ case studies were relevant to achieving the objectives/ expected outcomes of the work.

Strongly agree **Agree** **Unsure** **Disagree** **Strongly disagree**

SUGGESTIONS:

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CHILDREN'S EDUCATION SOCIETY (Regd.)
THE OXFORD COLLEGE OF ENGINEERING
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Conferences, Seminars, Workshops on quality conducted
2017-18

Sl. No.	Title of the Conferences, Seminars, Workshops on quality	Date	Duration	Nature of the activity	Name of the department
1	FDP on Enhancing the Quality of Teachers – Transformational Teaching	2 Aug.-3 Aug., 2017	2 Days	FDP	MBA
2	Internet of Things (IOT)	10 Nov.-11 Nov., 2017	2 Days	Workshop	ISE
3	Know your intellectual property rights – Patent Awareness Workshop	28 Dec-29 Dec., 2017	2 Days	FDP	BT,ECE,CSE

PRINCIPAL
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REPORT ON FACULTY DEVELOPMENT PROGRAM (FDP)
on
"ENHANCING THE QUALITY OF TEACHERS – TRANSFORMATIONAL TEACHING"
ORGANISED BY DEPARTMENT OF MANAGEMENT STUDIES

Date: 2nd & 3rd August 2017
Venue: 6th floor Seminar Hall
Program Coordinators:
Prof. A.Sahana
Prof. Chandrika Reddy

A two day Faculty Development Program (FDP) on 'Enhancing the Quality of Teachers- Transformational Teaching" was organised by the Department of Management Studies, TOCE.

The broad objectives of the FDP "Enhancing the Quality of Teachers – transformational Teaching" are

- To enhance and nurture the academic and professional development of teachers
- To develop competences to understand advancement in teaching methodologies
- To equip teachers with tools and techniques through discussions, group work, activities etc. and
- To understand the different roles of a teacher as facilitator, mentor, and as a guide to help student achieve excellence

Resource Persons:

The resource persons included both in-house from across the engineering & management departments and external experts

Day 1:

1) Mr. Sanjay Sahay, IPS. ADGP Karnataka Police
2) Prof. A. Sahana
3) Prof. Chandrika Reddy
4) Dr. Preeta Sharan & Dr. Manjunath B

Day 2:

1) Dr. James Thomas
2) Dr. Balakoteswari & Prof. Savitha K P
3) Ms. Khushpinder Kaur from Art of Living
4) Prof. Lucas

Target Audience:

Engineering, MCA and MCA faculty members of TOCE.

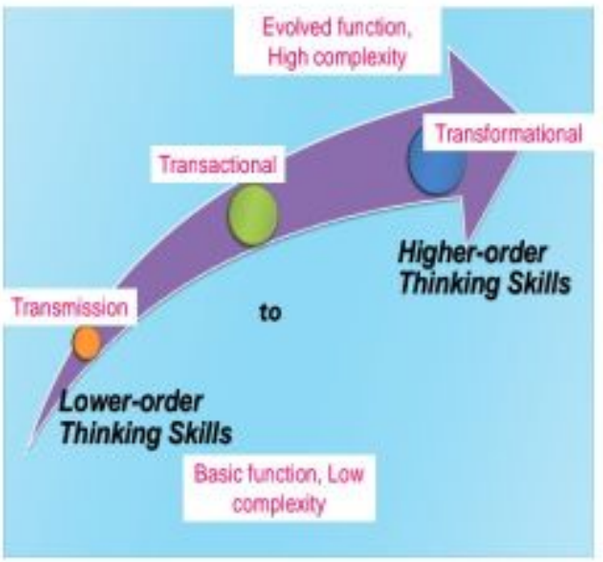
Details of sessions

DAY 1:

The two day Faculty Development Program (FDP) was inaugurated by Mr. Sanjay Sahay, IPS, ADGP, Karnataka Police. Mr. Sahay spoke on Transformational Learning – A Paradigm shift. Highlighting the fact that a well planned and creatively calibrated FDP can proactively transform human resources. He also explained the learning life cycle, standard teaching pedagogy and the need for transformation.

Session 1: Resource Person: A.Sahana, Assoc Prof, Department of Management Studies, TOCE. Gave an overview on Transformational Teaching and explained on

- Pedagogical approaches to transformational teaching
- Need to change & Self assessment
- 5W & 1 H Technique
- Bloom's taxonomy – Transmission and Transformational approach



Post lunch session included a Role play session by the participants on "How to use Transformational Teaching in Class Room".

Session 2: Resource Person: Chandrika Reddy, Assoc Prof, Department of Management Studies, TOCE highlighted on the different approaches that can be used towards becoming a transformative teacher, and also explained the different innovative techniques associated with transformational teching.

Session 3 was handled by Dr. Preetha Sharan, Professor, Department of ECE and Dr. Manjunath B, Professor, Department of Biotechnology and Research Coordinators, TOCE highlighted on the "Transformational Teaching – Inclination towards Research. They gave a overview on the need

To enhance and nurture the academic and professional development of teachers

To develop competences to understand advancement in teaching methodologies

To equip teachers with tools and techniques through discussions, group work, activities etc.

To understand the different roles of a teacher as facilitator, mentor, and as a guide to help student achieve excellence.

DAY 2:

Session 1: Resource Person: Dr. James Thomas, Professor & HOD, Department of Management Studies, TOCE, handled a session on Personal Financial Management. He gave an overview of the components of financial plan, risks and returns, active and passive income tools, need to achieve financial independence, 80/20 rule for creating wealth, and how to develop a personal financial strategy.

Session 2: Resource persons: Dr. Balakoteswari, Assoc Prof. and Savitha K P, Asst Prof **Department of Management Studies, TOCE, handled a session on Self Discovery.** The session on the need for self discovery highlighted on the holistic development of teachers by analysing the personality traits, how to make a self improvement plan? Discovering the 'Locus of Control'

Session 3: Resource person: by **Ms.Pushpinder Kaur, from Art of Living** spoke on desktop yoga and the importance of yoga to improve physical health and mental wellness and conducted a half an hour practice session for all the participants.

Session 4: **Prof Lucas M** on **"Ignite your Passion – Igniting the Teachers"**. The session covered ten qualities of a teacher, a teacher's survival kit for everyday living and an eight point oath for teachers.

Department of Information Science and Engineering
The Oxford College of Engineering
Bommanahalli, Bangalore-68

2015-18
IoT.

CHIEF PATRON
Sri.S.N.V.L.Narashima Raju
President,Children's Education Society

CHIEF MENTOR
Dr. R. Nagaraj
Director
The Oxford Educational Institutions

MENTOR
Dr R V Praveena Gowda
Principal, TOCE

PROGRAM CHAIR
Dr. D. Jayaramaiah
HOD, Department of ISE

CSI-STUDENT BRANCH COORDINATOR
Mr Karthik S L
Assistant Professor, Dept. of Ise

PROGRAM COORDINATORS
Mr Channappa Gowda
Mr Amreesha
Ms Geethanjali

SI STUDENT CHAPTER COORDINATORS
Ankit - III Year ISE
Ayush - III Year ISE
Adarsh - III Year ISE

TWO DAYS WORKSHOP ON "INTERNET OF THINGS"
(DEVICE TO DEVICE INTERACTION)

Computer Society of India - Student Chapter - TOCE of the Department of Information Science and Engineering is organizing two days workshop on "Internet of Things" on 10th & 11th November 2017.The workshop is open to all Engineering departments.

RESOURCE PERSONS OF THE WORKSHOP:

Mr. Anchal Koshta & Mr. Kamlesh Kumar
Embedded Engineers, i3indiya Technologies

THE TAKE AWAYS

- **Knowledge of IOT/IOE Technologies**
- **Deep understanding of device to device interfacing and IPV6**
- **Implementing projects of IOT**
- **Building smart apps with IOT**

PARTICIPANTS

Final year and 3rd-year students of all departments can participate in the workshop.

FOR REGISTRATION & FURTHER QUERIES CONTACT:

Mr.Karthik S L, Asst. Professor, +91-9886622862
Mr.Channappa Gowda, Asst. Professor, +91-9844321094
Adarsh Gupta, 3rd yr, +91-7204997136
Registration fees per student: 599/- only
Last date for registration: 9th Nov 2017

Children's Education Society ®
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING
Hosur Road, Bommanahalli, Bengaluru-560 068
Website: www.theoxford.edu Email : enghodise@theoxford.edu
(Approved by AICTE, New Delhi, Accredited by NBA, NAAC, New Delhi & Affiliated to VTU, Belgaum)

Date: 03/11/2017
Bangalore-68

To,

The principal

The Oxford College of Engineering

Bangalore.

Subject: Conduct of Two days workshop on IOT-reg.

Respected Sir,

The Department of ISE has planned to organize a two days workshop on 10th and 11th of November 2017 on "Internet of Things". I3indya technologies company from New Delhi has agreed to conduct the workshop and the resource person is Mr.Anchal an Embedded engineer with 16yrs of experience, who conducted number of workshops for premier institutions like IIT's and NITs across India.

This workshop will be conducted as part of the Computer Society of India, Student chapter of TOCE(ISE).As on date CSI account is having a balance, sum of rupees 15,800/-.For this workshop, a sum of rupees 10,000/-(Rs Ten thousand only) as the seed money, may please be approved towards the workshop expenditure.

A nominal fee of Rs 599/- per head for the two days workshop is charged from the students for the said expenses including lunch, certificates and hospitality activities for the trainers and to the invitees.

Put up for approval.

Regards

HOD-ISE 03/11/2017

CSI coordinators

2 days workshop has been approved & seed money 10,000/- from CSI a/c

THE OXFORD COLLEGE OF ENGINEERING

DEPARTMENT OF ISE

INVITES

For

Workshop

On

"INTERNET OF THINGS"

By

Mr. Anchal Koshta & Kamlesh Kumar

(Embedded Engineers, i3indiya Technologies)

Date: 10th and 11th November 2017

Venue: IV Floor Seminar Hall

Timings: 10:30 am to 4:00 pm

The Oxford College of Engineering
Departments of ISE
Workshop on "Internet of Things" November 10th – 11th, 2017
Attendance Sheet

S.No	Name	Sem	Dept	College	Signature			
					10/11/17 (FN)	10/11/17 (AN)	11/11/17 (FN)	11/11/17 (AN)
1	YESHWANTH.G.R	3	ECE	TOCE				
2	VEDIK R	3	ECE	TOCE				
3	NARENDRA M	1	Civil	TOCE				
4	NISHANTH M	5	ME	TOCE				
5	NABEEN NASIN	5	ME	TOCE				
6	SHEETAL A NAIK	1	EEE	TOCE				
7	KEDAR NAIK	5	ECE	TOCE				
8	GOVIND	5	ECE	TOCE				
9	PRATHIBHA G	5	ECE	TOCE				
10	RISHABH KUMAR	5	ECE	TOCE				
11	VIKAAS R.S	5	ECE	TOCE				
12	PAVAN KUMAR REDDY	5	ECE	TOCE				
13	NIVIN M	5	ECE	TOCE				
14	NIKHIL B.M	5	ECE	TOCE				
15	NAGARAJA MURTHY	5	ECE	TOCE				
16	PREMPRAMOD N	5	ECE	TOCE				
17	SPURTHI A	5	ECE	TOCE				
18	VAISHALI SHUKLA	5	ECE	TOCE				
19	ROHINI B RAO	5	ECE	TOCE				
20	GANESH J BIRADAR	5	ECE	TOCE				
21	QAZI TASAWUR	1	CSE	TOCE				
22	KULWANT	1	ISE	TOCE				
23	PUNEET	1	ISE	TOCE				
24	SHIVAMSHARAM	1	ISE	TOCE				
25	CR SAI RUCHITHA BABU	3	ISE	TOCE				
26	BORRA RAMYA	3	ISE	TOCE				
27	MONICA K V	3	ISE	TOCE				
28	MONISHA R SHETTY	3	ISE	TOCE				
29	NANDINI.R	3	ISE	TOCE				
30	NEETHU K	3	ISE	TOCE				
31	PRAMOD M	3	ISE	TOCE				
32	PRATTHAN	3	ISE	TOCE				
33	SHASHANK M	3	ISE	TOCE				
34	TEJASVI M G	3	ISE	TOCE				
35	VAISHNAVI MAHENDRA	3	ISE	TOCE				
36	BHARGAVA SRIKAR D J	3	ISE	TOCE				
37	DEEPTHI A	5	ISE	TOCE				
38	K HARSHITHA	5	ISE	TOCE				
39	B M PRAKRUTHI	5	ISE	TOCE				

50	D RAGNI SHATABDA	5	ISE	TOCE					
51	DIVYA V	5	ISE	TOCE					
52	BITTY CLEATUS	5	ISE	TOCE					
53	LAKSHMI MADHUMITHA	5	ISE	TOCE	P.Lakshmi	P.Lakshmi	P.Lakshmi	P.Lakshmi	
54	CHANDAN H A	5	ISE	TOCE					
55	AKSHAY P SHETTY	5	ISE	TOCE					
56	KARISHMA PAHALWAR	5	ISE	TOCE					
57	AUSTIN EMMANUEL T	5	ISE	TOCE					
58	AKSHATA V KULKARNI	5	ISE	TOCE					
59	DEEKSHITHA R	5	ISE	TOCE					
60	ABHISHEK M S	5	ISE	TOCE					
61	DAREL V JOHNY	5	ISE	TOCE					
62	FANOOS FATHIMA	5	ISE	TOCE					
63	ANKIT KUMAR MISHRA	5	ISE	TOCE					
64	S JAYASHREE	5	ISE	TOCE					
65	AMALU.P	5	ISE	TOCE					
66	ARCHANA.N	5	ISE	TOCE					
67	ASHWINI B S	5	ISE	TOCE					
68	RACHITHA R NAYAK	5	ISE	TOCE					
69	RUCHITHA K	5	ISE	TOCE					
60	MARIA SANJANA G	5	ISE	TOCE					
61	SARITHA KUMARI K	5	ISE	TOCE					
62	VRISHANKA ISLOOR	5	ISE	TOCE					
63	SANJANA.H	5	ISE	TOCE					
64	RUKHIYA KULSOOM M	5	ISE	TOCE					
65	REEWA R	5	ISE	TOCE					
66	PAWAN SHARMA	5	ISE	TOCE					
67	NADEEM AHMED S	5	ISE	TOCE					
68	S SUDHANVA DESHPANI	5	ISE	TOCE					
69	NELAVALLI NAVEEN KU	5	ISE	TOCE					
70	SUDEEP .S.D	5	ISE	TOCE					
71	SALINI RS	5	ISE	TOCE					
72	S NADIYA	5	ISE	TOCE					
73	SADIYA KAUSAR	5	ISE	TOCE					
74	SUSHMITHA.N	5	ISE	TOCE					
75	SRI ROOPINI .U	5	ISE	TOCE					
76	POOJA B S	5	ISE	TOCE					
77	VARSHA.U.V	5	ISE	TOCE					
78	ASHLEY THOMAS	7	ISE	TOCE					
79	ASMA NOOREN P	7	ISE	TOCE					
80	CHANDANA L V	7	ISE	TOCE					
81	DIVYA G A	7	ISE	TOCE					
82	NAVYA V	7	ISE	TOCE					
83	ANUSHA B	7	ISE	TOCE					
84	AJAY BARADHWAJ K	7	ISE	TOCE					

85	AKSHAY R	7	ISE	TOCE				
86	ARUN RAJ K	7	ISE	TOCE				
87	DARSHAN S	7	ISE	TOCE				
88	KARAN K	7	ISE	TOCE				
89	CHANDRASHEKAR M	7	ISE	TOCE				
90	LAKSHMI L MENDA	7	ISE	TOCE				
91	GUDEKOTA ADITHYA	7	ISE	TOCE				
92	SANJAY .K	7	ISE	TOCE				
93	NIDHIKUMARI JAIN	7	ISE	TOCE				
94	NIKHIL H M	7	ISE	TOCE				
95	NIVEDHA M	7	ISE	TOCE				
96	PALLAVI R	7	ISE	TOCE				
97	SHREYAS S	7	ISE	TOCE				
98	SANDHYA R	7	ISE	TOCE				
99	SANIYA SADAF M	7	ISE	TOCE				
100	POOJA DESHPANDE	7	ISE	TOCE				
101	SUPRIYA S	7	ISE	TOCE				
102	VINITHA S BHAT	7	ISE	TOCE				
103	SUSHMA R	7	ISE	TOCE				
104	SRINIDHI L N	7	ISE	TOCE				
105	VINAYAK SURESH PAI	7	ISE	TOCE				
106	MIR MUSTAFA ALI	7	ISE	TOCE				
107	ROZER CHANAMBAM	7	ISE	TOCE				
108	DHANUSH	7	ISE	TOCE				
109	VEMASANI SAI VIJAY	7	ISE	TOCE				
110	SINDHU HURKADLI	7	ISE	TOCE				
111	RANJITH KUMAR	7	ISE	TOCE				
112	MEGHANA B N	7	ISE	TOCE				
113	VAIBHAV BHARADWAJ	7	ISE	TOCE				
114	SHANAZ P S	7	ISE	TOCE				
115	SHASHANK G HEGDE	7	ISE	TOCE				
116	PRERANA P	7	ISE	TOCE				
117	RAJESH GANAPATI BHA	7	ISE	TOCE				
118	SHARATH P	7	ISE	TOCE				
119	RANJITHA S	7	ISE	TOCE				
120	BINDHU.N	7	ISE	TOCE				
121	NAMRATA M	7	ISE	TOCE				
122	RICHA AGRAWAL	7	ISE	TOCE				
123.	Kumar Swamy	1	Auto	TOCE.				

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Hosur Road, Bommanahalli, Bengaluru-560 068

DEPARTMENT OF ISE PRESENTS

TWO DAYS WORKSHOP

ON

"INTERNET OF THINGS"

Make the Machines to Talk

10th & 11th November, 2017

THE TAKE AWAYS:

- Knowledge of IOT/IOE Technologies
- Deep Understanding of Device to Device Interfacing & IPV6
- Implementing Projects on IOT
- Building Smart Apps with IOT

Resource Persons from i3indya Technologies

VENUE:

DEPARTMENT OF ISE

THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD

080-30219601/789/790

TIME : 09:00 AM ONWARDS

FOR FURTHER QUERIES ---------->

CONVENER:

Dr. D. Jayaramaiah, HOD-ISE

FACULTY CO-ORDINATORS:

Mr. Channappa Gowda (9844321094)

Mr. Karthik SL (9886622862)

Ms. Geetanjali (9880303905)

Registration Fee: ₹599/-

Website: www.theoxford.edu

STUDENT CO-ORDINATORS:

Adarsh Gupta (7204997136)

Ayush Singh Tomar (7795112719)

Ankit Kumar Mishra (9606622087)

Estd. 1974

The Oxford College of Engineering

Registration Form

Internet of Things

10th & 11th November, 2017

Name.....

Stream.....

College/ Institution.....

Mobile No.....

E-mail:.....

Registration Fee Rs.....

DD No.....

Date:.....

Name of the Bank & Branch:.....

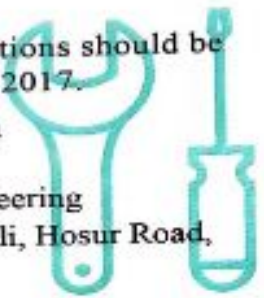
.....

Signature with seal
Principal/Head of
the Institution.

Signature of the
Applicant

NOTE: The filled in applications should be sent on or before 10th Nov, 2017.

Address for Communication
The Principal,
The Oxford College of Engineering
10th Milestone, Bommanahalli, Hosur Road,
Bengaluru-560068
Website: www.theoxford.edu



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DEPARTMENT OF ISE

PRESENTS

Two Days Workshop

ON

INTERNET OF THINGS

-Device to Device Interaction

10th & 11th November, 2017

REGISTRATION FEE: ₹ 599/-

Resource Person from i3indya Technologies

Organized by

The Oxford College of Engineering

10th Milestone, Bommanahalli, Hosur Road, Bengaluru-560068
080-30219601/602/604
www.theoxford.edu

Contact Details:Mr. Channappa Gowda (9844321094), Adarsh Gupta(7204997136)

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Report on Faculty Development program on Know your intellectual property rights – Patent Awareness Workshop on 28th & 29th December, 2017.

The Department's of Biotechnology, ECE & CSE organized a two day faculty development program on ***"Know your intellectual property rights – Patent Awareness Workshop"*** sponsored by DST-TIFAC, Govt. of India, on 28th & 29th December 2017. The main aim of the workshop was to impart greater awareness about the issue of IPR to the teaching and research fraternity and enable them to utilize it.

The main objective of the program were:

- To understand patentability criteria in detail and viable aspect of the patent.
- To understand and asses the importance and scope of IPR in academic researches.
- To understand types of innovations patentable & how to test patentability of innovations.
- To understand procedure of patent writing, patent filing and the process of granting patent.
- Indian IPR policy and facility extended for filing.

The Program was inaugurated by the chief guest, Professor Prabhat Ranjan, Executive Director, DST-TIFAC, New Delhi, who delivered key note address on the program. Dr. Nagaraj R, Director of The Oxford Group of Institutions presented a overview of the work shop and emphasized on the need for greater level of understanding of IPR in the academics and its utilization for minimizing the gap between industry and academia. Principal Dr. Praveen Gowda addressed the gathering stressing on the importance of protecting and patenting the innovations in the present day scenario in the field of Engineering. the inaugural session concluded with vote of thanks delivered by Dr.Balacoteshwari, Professor. Master of Business Administration. On the eve of inauguration dignitaries from various Academic institutions and Industry personals were present.

The first technical session began with Prof. Prabhat Ranjan delivering a talk on "Technology vision 2035 and National IPR policy" which emphasized on the importance of innovation, IPR policy, Academia and Industry interaction, global scenario in technology development and role

of India in Global Science and technology. The Second Technical session was given by Mrs.Sangeetha Nagar, Scientist E, PFC-TIFAC, she delivered an expert lecture on the "Introduction to IPR" throwing light on the various opportunities for patenting the innovations, schemes of TIFAC in promoting filing of IPR. The third session was followed by Dr.S.P Sbramaniyan, Head Chennai Patent office, the speaker delivered a talk on ." Patenting systems in India." the sessions gave an insight in the deeper understanding of IPR and the regulations and systems of patenting in India.

The post lunch session had an invited talk on "Prior Art search for Novelty with Demo" by Dr.Shivani Srivastava, Patent Attorney, M/s Lex Orbis, Bengaluru, explaining the method and procedure followed for prior art search, various websites, literature, and resources available for faculties.

Second day Pre lunch session was started with a series of expert lecture from Mr. Naveen Suriya, K&S Partners, Bengaluru, He delivered a lecture on "Patenting in Engineering" explaining the methods that can be employed in enhancing innovation and patenting in Engineering technology and "Importance of IP policy and cell for educational institutions" was the talk delivered by Mrs. Sangeetha Nagar, Scientist E,PFC-TIFAC, In the third session, Ms.Bindu Sharma, CEO, Origin IP solutions LLP delivered a talk on "Copyright management in academic Institution". the session continued with Dr. Rama Krishnamurthy, Patent Attorney, Ibha IP solutions, Bengaluru addressing the participants with her talk on "Industrial Design & their registration in India"

The second day post lunch session began with technical talk titled "technology transfer & Patent Licensing"by Mr. N G Lakshminarayan, Chief NRDC, Bengaluru and the session ended by the last speaker Mr. Srikanth Venkatesh, TCS, Bengaluru delivering the lecture on "handling IP in industry: TCS Experience". A panel of experts was invited on the dias to address the doubts and confusions raised by the participants.

The FDP ended with valedictory function by the professionals and the staff members, collection of opinions from the participants and most importantly, distribution of Certificates of Participation for all the participants.

The workshop was successful in bringing awareness on patenting and the various opportunities available in Government policies to promote the innovation and patenting. It helped the faculty in understanding the role of TIFAC in promoting the patent awareness. The participating faculty of Visvesvaraya Technological University greatly benefited by the workshop and appreciated the effort of the Oxford College of Engineering and DST-TIFAC in organizing such a informative, brain storming, educative sessions and requested to organize one more Advanced workshop to train the faculty on patenting procedure. On behalf of all participants we express our deep gratitude to DST-TIFAC, Executive Director Professor Prabath Ranjan, Mrs.Sangeetha Nagar,

and Mr.Yeshawant D Panwar PFC-TIFAC for their kind support and we expect more such associated activities to spread awareness on Innovation and patenting in Academic Institutions.

Welcoming the dignitaries

Interaction of the principle and head of departments with the dignitaries

Dignitaries on the diace

Inaugration



Inaugration



Felicitation of the guest



Welcoming the guests



Panel discussion



Certificate distribution



Valedictory function

Participants with the speakers

CHILDREN'S EDUCATION SOCIETY (Regd.)
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(Recognised by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi,
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Bommanahalli, Hosur Road, Bangalore - 560 068.
Ph: 080-61754601/602, Fax: 080 - 25730551
E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

Conferences, Seminars, Workshops on quality conducted
2018-19

Sl. No.	Title of the Conferences, Seminars, Workshops on quality	Date	Duration	Nature of the activity	Name of the department
1	Python Workshop	1April-2 April,2019	2 Days	Workshop	CSE

PRINCIPAL
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bengaluru-560 068

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING
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Website:www.theoxford.edu Email: enghodcse@theoxford.edu
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PYTHON WORKSHOP REPORT

Python Workshop was conducted for 6th semester during 01st April 2019 and 02nd April 2019 by pale technologies at CSE seminar hall, TOCE, Bangalore.

On day 1, the morning session students were learned basics of python. Python syntax and style, variables, reading input from the user, strings, lists, string slicing functions. In the afternoon section, we learnt about difference between lists and strings, different functions used in python, various Python programs were demonstrated to students.

On day 2,the morning session student were learned object oriented concepts of python, encapsulation ,inheritance ,how to declare class in python and programs based on this concept was demonstrated to students ,In the afternoon section we learnt MYSQL ,data types ,different types of constraints and creation of database ,insert, delete and update concepts and Normalization.

Students felt that python workshop was useful, certificates was given to students which is ISO certified helpful for students in academic learning and placements.

Department faculties everyone participated in python workshop and they learnt about python.

Resource Person Details

1. Mr Satheesh Reddy
2. Ms Pavithra

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Python workshop @CSE Seminar Hall for 6A & 6B students

Participation certificate distribution by Dr. E.Saravana Kumar, HOD/CSE and Mr.SatheeshReddy, Managing Director, Pale Technologies from right to left (Clockwise)

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LEADERS IN TECHNOLOGY TRAINING NASSCOM® MEMBER

Presents this

CERTIFICATE OF PARTICIPATION

To

Mr./Ms. Dr. E. Saravana Kumar

For his/her active and invaluable participation during the

PYTHON WORKSHOP THE PRACTICAL APPROACH

held on 01st & 02nd April 2019 *at* **The Oxford College of Engineering, Bengaluru**

Presented By:

Palle Technologies Bangalore 560068

Palle Satish Reddy

Director

Dept. : Computer Science & Engineering

Palle Technologies, 15/6, 3rd Floor, Manish Complex (Above SBI Bank)
Mangammanapalya Main Road, Bommanahalli, Bangalore-560 068
Tel : 080-4164-5630 / 4219-5240, E-mail : enquiry@techpalle.com Web : http//www.techpalle.com facebook.com/palletech

18-19

Palle® Technologies

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Mr./Ms. Prof Senthil Kumar R

For his/her active and invaluable participation during the

PYTHON WORKSHOP THE PRACTICAL APPROACH

held on 01st & 02nd April 2019 *at* **The Oxford College of Engineering, Bengaluru**

Presented By:

Palle Technologies Bangalore 560068

Palle Satish Reddy

Director

Dept. : Computer Science & Engineering

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Tel : 080-4164-5630 / 4219-5240, E-mail : enquiry@techpalle.com Web : http//www.techpalle.com facebook.com/palletech

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To

Mr./Ms. Prof. Shobha T

For his/her active and invaluable participation during the

PYTHON WORKSHOP THE PRACTICAL APPROACH

held on 01st & 02nd April 2019 *at* **The Oxford College of Engineering, Bengaluru**

Presented By:

Palle Technologies Bangalore

Palle Satish Reddy

Director

Dept. : Computer Science & Engineering

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To

Mr./Ms. Prof. Seema Patil

For his/her active and invaluable participation during the

PYTHON WORKSHOP THE PRACTICAL APPROACH

held on 01st & 02nd April 2019 *at* **The Oxford College of Engineering, Bengaluru**

Presented By:

Palle Satish Reddy

Director

Dept. : Computer Science & Engineering

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To

Mr./Ms. Prof. Sowmya HK

For his/her active and invaluable participation during the

PYTHON WORKSHOP THE PRACTICAL APPROACH

held on 01st & 02nd April 2019 *at* **The Oxford College of Engineering, Bengaluru**

Presented By:

Palle Technologies Bangalore

Palle Satish Reddy

Director

Dept. : Computer Science & Engineering

Palle Technologies, 15/6, 3rd Floor, Manish Complex (Above SBI Bank)
Mangammanapalya Main Road, Bommanahalli, Bangalore-560 068
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Presents this

CERTIFICATE OF PARTICIPATION

To

Mr./Ms. Prof. Sushma T

For his/her active and invaluable participation during the

PYTHON WORKSHOP THE PRACTICAL APPROACH

held on 01st & 02nd April 2019 *at* **The Oxford College of Engineering, Bengaluru**

Presented By:

Palle Technologies Bangalore

Palle Satish Reddy

Director

Dept. : **Computer Science & Engineering**

Palle Technologies, 15/6, 3rd Floor, Manish Complex (Above SBI Bank)
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To

Mr./Ms. Prof. TINTU THAMPI

For his/her active and invaluable participation during the

PYTHON WORKSHOP THE PRACTICAL APPROACH

held on 01st & 02nd April 2019 *at* **The Oxford College of Engineering, Bengaluru**

Presented By:

Palle Technologies Bangalore 560068

Palle Satish Reddy

Director

Dept. : Computer Science & Engineering

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Mr./Ms.....Anjali.....Anand.....

For his/her active and invaluable participation during the

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held on 01st & 02nd April 2019 *at* The Oxford College of Engineering, Bengaluru

Presented By:

Palle Technologies Bangalore 560058

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Conferences, Seminars, Workshops on quality conducted
2020-21

Sl. No.	Title of the Conferences, Seminars, Workshops on quality	Date	Duration	Nature of the activity	Name of the department
1	FDP on Recent Trends in Photonics	14 June-19 June, 2021	6 Days	FDP	ECE
2	FDP on Advancements in Artificial Intelligence(AI) & Machine Learning(ML)	12 July-17 July, 2021	6 Days	FDP	ISE
3	FDP on Recent Trends in Electrical Engineering	12 July-17 July, 2021	6 Days	FDP	EEE
4	FDP on Introduction to Ml and Applications	26 July-31 July, 2021	6 Days	FDP	CSE

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The Oxford College of Engineering
Bommanahalli, Hosur Road
Bengaluru-560 068

REPORT ON

ONE WEEK FACULTY DEVELOPMENT PROGRAM

ON

RECENT TRENDS IN PHOTONICS

June 14-19, 2021

at

Department of Electronics and Communication Engineering

A one week Faculty Development Program (FDP) on Recent Trends in Photonics was organized at the Department of Electronics & Communication Engineering, The Oxford College of Engineering Bangalore from June-14, 2021 to June- 19, 2021 in association with IEEE Photonics Society, Bangalore Chapter as the academic partner. The main objective of this program is to make the participants aware of the recent trends in photonics so that they can update their knowledge in this area and explore for further research. It was also expected that as the participants are all faculties of different educational institutions, the knowledge gained will be shared and further passed on to the students. The FDP was attended by 168 participants from faculty members& Research Scholars of ECE, EEE, CSE, ISE, ME, Biomedical engineering, Medical Electronics, Basic Science department of different colleges.

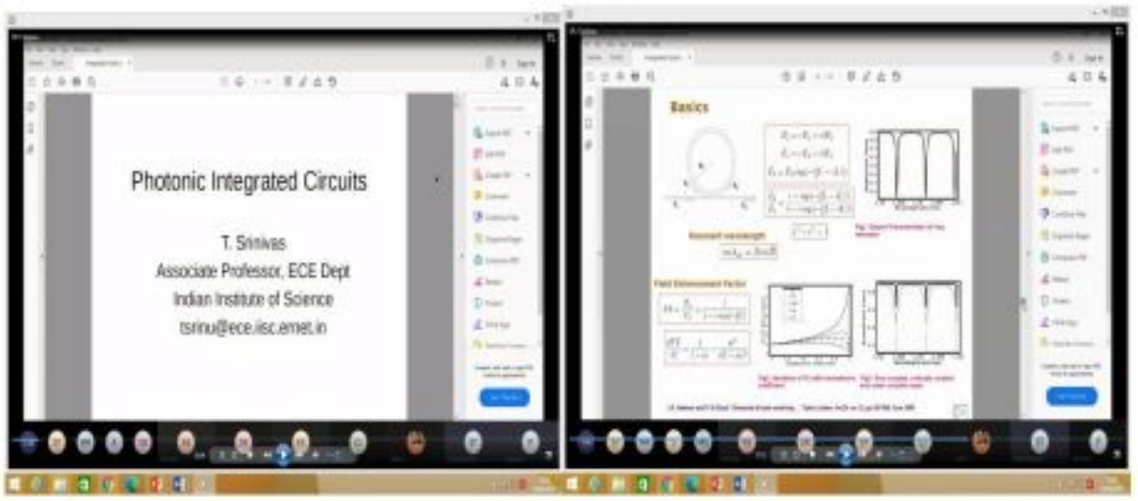
Ms. Mittu George hosted the inauguration programme began with a prayer song by Ms. Srividya. Dr. Manju Devi, Head of the Department of Electronics and Communication Engineering welcomed all the respected dignitaries and participants. Hon. Principal Dr. N Kannan shared his views with the faculty participants that if faculty wants to develop themselves and their students, then attending such faculty development programmes would enhance their skills of teaching concepts practically. Sir, further shared that it helps to improve the performance of faculty in teaching and highlighted the importance and objectives of organizing faculty development programmes. Dr. Preeta Sharan, Professor, ECE dept and Co-Convener, emphasized the benefits of such kind of resourceful and explained the importance of photonics in engineering. The introduction to the Keynote speaker was given by FDP Coordinator Dr. A Chrispin Jiji, Associate Professor, ECE dept.

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, 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.

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

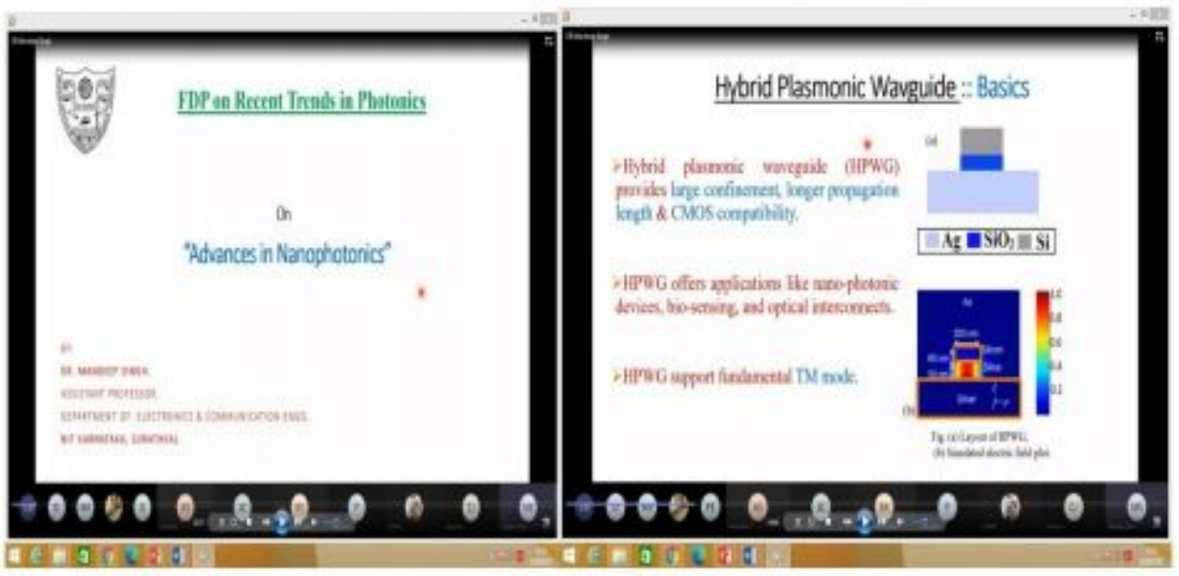


Technical session by Dr.T.Srinivas

On Day 2 Session 1 was conducted by **Dr. Gagan Kumar,** Faculty, IIT Guwahati, 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 in their domain using this technology. The introduction to the Keynote speaker was given by FDP Coordinator Dr. A Chrispin Jiji, Associate Professor, ECE dept.

Technical session by Dr.Gagan Kumar

Session 2 was conducted by **Dr. Mandeep Singh,** NIT Surathkal Karnataka & Visiting Scientist at IISc, about Advances in Nanophotonics. In this session participants were learned about COMSOL software. The introduction to the Keynote speaker was given by FDP Coordinator Dr. R.Bhargava Rama Gowd, Associate Professor, ECE dept.

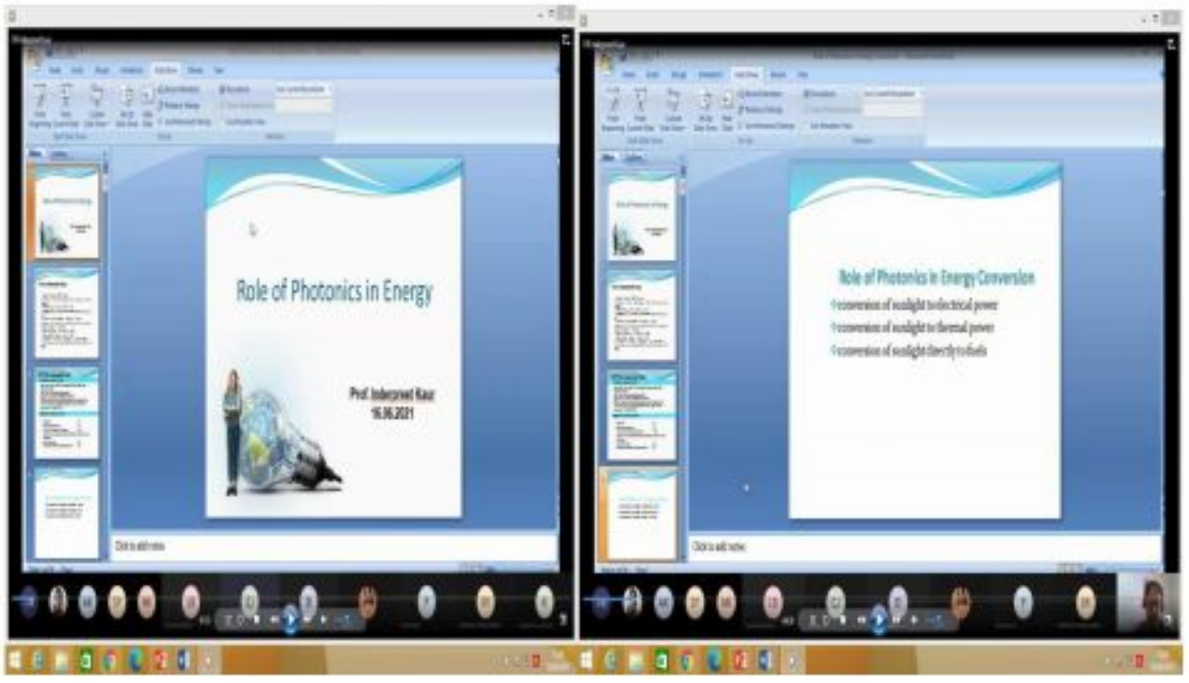


Technical session by Dr.Mandeep Singh

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.

Technical session by 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 energy resources in Photonics. The introduction to the Keynote speaker was given by FDP Coordinator Dr. A Chrispin Jiji, Associate Professor, ECE dept.

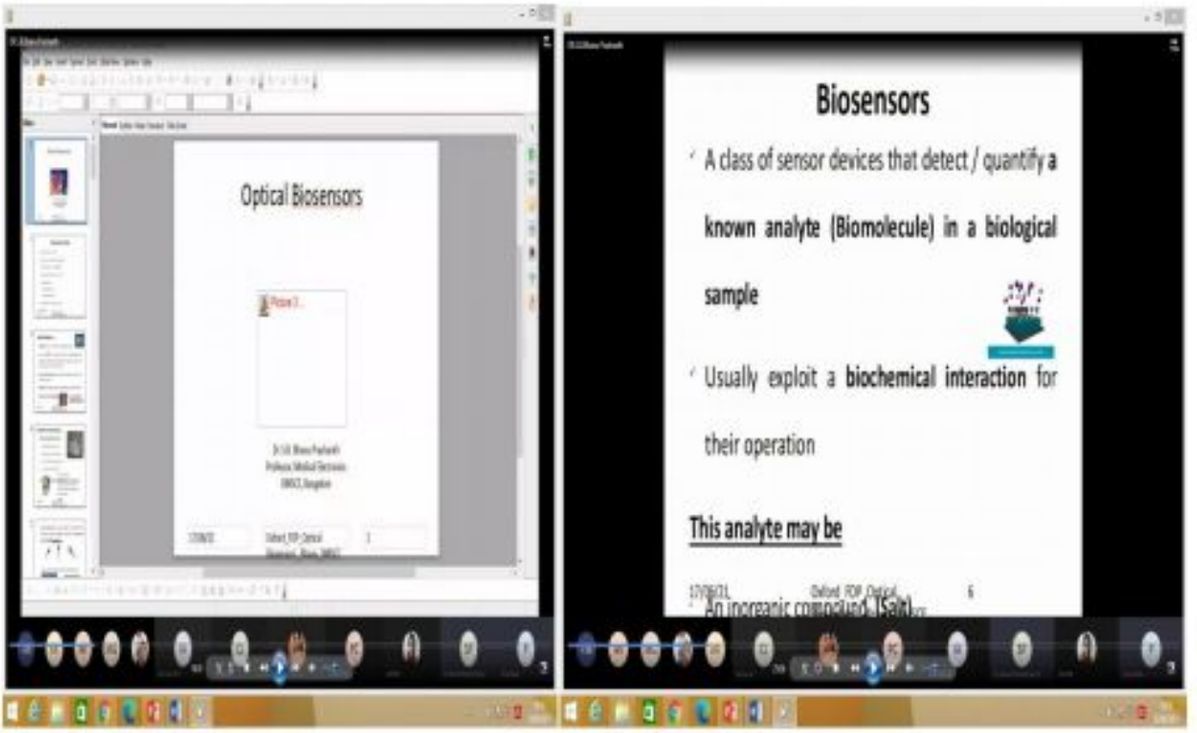


Technical session by Dr.Inderpreet Kaur

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.

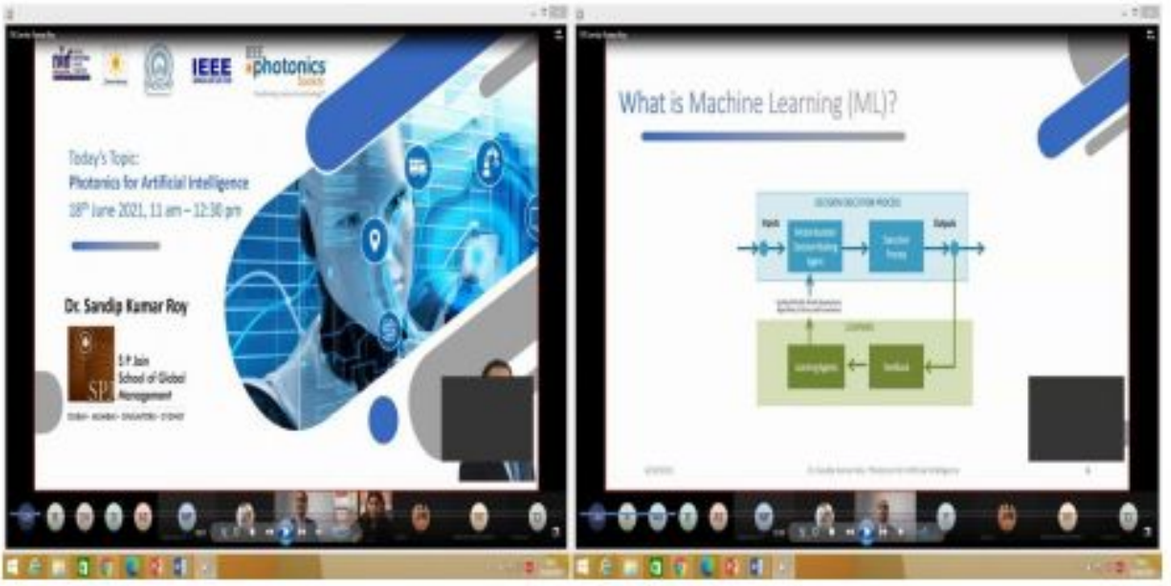
Technical session by Dr.P.C.Srikanth

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 session participants have learned about the basis of various Bio sensors. The introduction to the Keynote speaker was given by FDP Co Convener Dr. Preeta Sharan, Professor, ECE dept.



Technical session by Dr.S.B.Bhanu Prashanth

On Day 5 Session 1 was conducted by **Dr. Sandip Kumar Roy,** Professor, S P 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.



Technical session by Dr.Sandip Kumar Roy

Session 2 was conducted by **Dr. Maneesh C Srivastava,** HOD Mechanical Engineering, Amity University Lucknow Campus, India. He spoke aboutPhotonics in Health Monitoring Concepts. In this session participants have learned about the IOT based devies.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 aboutthe Significance of Spirituality in the Youth of Today. The introduction to the Keynote speaker was given by FDP Co Convener Dr. Preeta Sharan, Professor, ECE dept.

Technical session by Dr.Gagandeep

The FDP was concluded by the valedictory function conducted on Day 6 afternoon 3.00pm. The session started with the welcome speech of Dr. Manju Devi, HOD, ECE Dept. She gave a warm welcome to the gatherings and to the dignitaries. The overview of the FDP was delivered by Dr. Preeta Sharan, Co-Convenor ECE Dept. The Principal Dr. N Kannan appreciated the effort of the organizing team in managing the FDP so well. Few Speakers and participants shared their wonderful experience during the FDP. The valedictory function ended by the Vote of Thanks by Mrs. Laya Tojo, Assistant Professor, ECE Dept.

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 advance 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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Department of Information Science & Engineering

Report

6 days Faculty Development Program (FDP)

On

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

(12-July-21 to 17-July- 21)

In Association with

Computer Society of India (CSI) Bangalore Chapter

Organizing Chair

Dr.R.Kanagavali

Professor and Head, Information Science and Engineering Department

Convener/Program Coordinator

Dr.Vanajaroselin E.Chirchi

Professor, Information Science and Engineering Department

About Program

The objective of the 6 days Faculty development program on Advancements in Artificial Intelligence (AI) and Machine Learning (ML) was to enrich the knowledge of faculty, research scholars of all the discipline. The focus of the FDP was on Artificial Intelligence and its trending applications with machine learning and deep learning. The FDP sessions divide into several modules falling under the umbrella of Artificial Intelligence including Machine Learning, Deep Learning, Computer Vision, Data science, Learning Analytics and Natural Language Processing (NLP). The objective was to address modern trends in the field of Artificial Intelligence with real time problem solving. The FDP enriched with speakers hands-on sessions. The speakers of the sessions were from IITs, NITs, Central University of Karnataka (CUK), Industry and reputed Institutes.

Date: 12th to 17th July 2021

Time: Morning Session (FN):11 to 12:30 PM; Afternoon (AN) session: 2 to 3:30PM

Medium: Virtual with MS Teams

Faculty Coordinators: Prof. Vidhya Venkatesh and Prof. Sandhya Rani

Program Coordinator/Convener: Dr.Vanajaroselin E.Chirchi

Organizing Committee:

1. Dr.R.Kanagavalli (Professor & HOD)
2. Dr.Vanajaroselin E.Chirchi(Professor)
3. Prof.Vidhya Venkatesh(Assistant Professor)
4. Prof.Sandhya Rani(Assistant Professor)

Target Audience:

1. Faculty members from various academic institutes/universities from all over India
2. Research Scholars
3. Industry Personnel

No. of Participants:

1. Academician-100
2. Industry Person-02

FDP Banner:

Speaker's Profile:

Sl.No.	Name of the Speaker	Brief Profile
1	Prof.Dr. Ciro Rodriguez-UNMSM, Lima,Peru,South America	A Profesor of Software Engineering School at National University Mayor de San Marcos UNMSM; Computer Science Faculty, Graduate School EUPG of National University Federico Villarreal UNFV.Researcher in differents research groups & research lines as Artificial Intelligence, Health-Social Welfare, and Environment.
2	Prof.Dr.Vinay Kulkarni-IIT Bombay	Technologist with over thirty years of professional experience with current focus on consulting, capability building, and imparting education in the areas of Machine Learning, Data Analytics, Big Data Technologies and Problem Solving.
3	Prof.Dr Maheshkumar H Kolekar-IIT Patna	Dr. Maheshkumar H. Kolekar is working as Associate Professor in Dept of Electrical Engg at Indian Institute of Technology Patna, India, where he is holding post of Associate Professor. He has successfully completed R and D project sponsored by Principal Scientific Advisor to Govt of India on abnormal human activity recognition.
4	Prof.Dr. P. Radha Krishna-NIT Warangal	His profession of research, development and technology adoption for about Thirty years. He is currently working as a Professor and Head, Department of Computer Science and Engineering, National Institute of Technology (NIT) Warangal. His research interests include data mining, big data, machine learning and databases and workflow systems.
5	Prof.Dr. Shashidhar G Koolagudi – NITK Surathkal	Associate Professor & Head of the Department, CSE at NITK Surathkal, published Books, 5 book chapters in Springer publications, Having funding projects from DST(SERB,CSRI),KOVID Research lab, Guiding Research scholars.
6	Prof.Dr. Layak Ali -CUK	Dr. Layak Ali is working as Assistant Professor of Electronics and Communication Engineering in School of Engineering, Central University of Karnataka since 2013. research areas are Cognitive Radio, Power optimization in Sensor Networks, Image Processing, Reactive Power compensation, Filter Design, Global optimization and Swarm Intelligence.
7	Prof.Dr.Arvind Kiwelekar-DBATU,Lonere	Working as a Professor in Computer Engineering and Dean (Value Education and Social Responsibility). He has published twelve book chapters, Seven journal papers, and 22 research papers in peer-reviewed leading international conferences. His research areas of interest include diverse topics such as Artificial Intelligence, Blockchain Technology, ICT for Sustainable Development (ICT4D), Learning Analytics, Machine Learning, Ontological Modelling, and Software Architecture.
8	Prof.Dr. Damodar Reddy Edla –NIT Goa	Working as Assistant Professor in the department of Computer Science and Engineering, National Institute of Technology (NIT) Goa. He has published more than 130 research articles in reputed International

		journals and standard conferences. His research interests include Wireless Sensor Networks, Cognitive Neuroscience, Brain Computer Interface and Medical Imaging.
9	Prof.Dr.Parikshit N. Mahalle-VIT Pune	He is passionate about teaching, learning and research with 21 years of experience; he is self-learner, proactive team member and leader. He is Professor and Head, Department of Artificial Intelligence and Data Science, Vishwakarma Institute of Information Technology, Pune. Book "Data Analytics for Pandemics: A COVID-19 Case Study" is also the winner for best Short form /Focus book in STEM category (CRC Press).
10	Mr.Chetan Adhikari.Y-TCS,Bangalore	He is IT consultant in TCS Bangalore, He has certification for Python from University of Michigan. Handled many projects in python. His area of interest Python ,+ LATEX,+ Raspberry Pi,+ Open-source software.

Day 1: 12th July 2021

Session 1: (11:00 AM to 12:30PM) Inaugural function and Key note speech (Prof. Dr. Ciro Rodriguez

The FDP has aim and focus that all the participants should acquire the knowledge in the field of AI so the Inauguration began the invocation song in presence of college principal, Director, HODs and Key note speaker. After that Chief Guest (key note speaker) of the program has declared the opening of FDP.

Key Note speech by Dr.Ciro Rodriguez was on Advancements in AI and ML; he has drawn his knowledge from history of Artificial Intelligence to the latest trends and applications in AI.

Session 2: (2:00PM to 3:30 PM) Data Science by Prof. Dr.Vinay Kulkarni- Adjunct Faculty, IIT Bombay

In the session on Data Science, Dr.Vinay Kulkarni covered overview and applications of deep learning. He explained that the exponential growth of business data, low-cost data storage, and Artificial Intelligence reaching maturity will lead to more businesses outsourcing their data center enter activities to cloud service providers. Also, the future of Machine Learning and Artificial Intelligence explains that while cloud brings agility to businesses, AI and ML will leave a major impact on business outcomes.

Day 2: 13th July 2021

Session 3: (11:00 AM to 12:30PM) Computer Vision by Prof.Dr. Mahesh Kumar H.Kolekar –IIT Patna

In the session of computer vision the speaker focused on the basics, applications of the computer vision. Speaker took us with deep learning approach for Covid-19 dataset and shown the hands-on with Koggle, Colab environment with iris dataset and explained image enhancement using image processing concept. Explained, how we can calculate performance metrics such as accuracy, True negative, true positive etc.

Session 4: (2:00PM to 3:30 PM) Genetic Algorithm by Prof.Dr.Layak Ali –CUK

Swarm intelligence oversteps the intricate mechanisms governing evolution that genetic algorithms rely on. It is a field of artificial life that seeks to understand the collective behavior of animals, particularly insects, and to use this understanding for solving complex, nonlinear problems. Sir has made us to understand the swarm intelligence with optimization, algorithms, simulation with analogies.

Day 3 : 14th July 2021

Session 5: (11:00 AM to 12:30PM) Natural Language processing by Prof.Dr. Shashidhar G Koolagudi –NITK Surathkal

Natural language processing (NLP) refers to **the branch of computer science**—and more specifically, the branch of artificial intelligence or AI—concerned with giving computers the ability to understand text and spoken words in much the same way human beings can. Speaker has focused on the discourse ie ordering of statements. Sir has made the session very interesting and interactive with many examples.

Session 6: (2:00PM to 3:30 PM) Data Science by Prof.P RadhaKrishna –NIT Warangal

Explanation made by the speaker was remarkable, he started the presentation from problem solving, machine computing and data science in multidisciplinary. Speaker also explained the technology transformation toward data science with applications. Speaker explained the proceeding for analytics ie understanding data for learning or analysis, participants were very happy to receive such information.

Day 4: 15th July 2021

Session 7: (11:00 AM to 12:30PM) Hands-on programming with Python by Mr.Chetan Adhikari

Python is a general purpose and high level programming language. We can use Python for developing desktop GUI applications, websites and web applications. Also, Python, as a high level programming language, allows you to focus on core functionality of the application by taking care of common programming tasks. The simple syntax rules of the programming language further makes it easier for us to keep the code base readable and application maintainable.

To make audience aware with python programming, hands-on session was organized by Mr.Chetan Adhikari, IT consultant, TCS Bangalore. He explained with dataset and how to use python for data science, computer vision etc.

Session 8: (2:00PM to 3:30 PM) Learning Analytics by Prof.Dr.Arvind Kiwelekar-DBATU,Lonere

LEARNING ANALYTICS is the measurement, collection, analysis and reporting of data about learners and their contexts, for purposes of understanding and optimizing learning and the environments in which it occurs. Learning Analytics sits at the convergence of Learning (e.g. educational research, learning and assessment sciences, and educational technology), Analytics (e.g. statistics, visualization, computer/data sciences, artificial intelligence). The speaker had explained with education data (teaching/learning), how to predict the no of failure students etc. Sir's insight knowledge on the topic made the participants to understand the analytic tools and how to use it.

Day 5: 16th July 2021

Session 9: (11:00 AM to 12:30PM) Human computer Interaction using Machine Learning by Prof.Dr. Damodar Reddy Edla –NIT Goa

Now a day many applications such as medical systems require human computer interfacing. Speaker knowledge related to HCI explained it with medical imaging applications. The speaker had explained with Brain computing interaction.

Session 10: (2:00 PM to 3:30PM) Hands-on session in Brain computing by Prof.Dr. Damodar Reddy Edla –NIT Goa

The session was continued by the speaker on the topic brain computing for the human computer interfacing. Sir had taken hands-on session in which he had demonstrated the component to check the brain reading and shown the signals as the graph.

Day 6: 17th July 2021

Session 11: (11:00 AM to 12:30PM) Data Analysis for COVID-19 Pandemic by Prof.Dr.Parikshit N. Mahalle-VIT Pune

The speaker of the session focused on COVID -19 data analysis, there is massive uptake and explosion of data and challenge is to address issues like scale, pace, velocity, variety, volume and complexity of this big data. Considering the recent epidemic in China, modeling of COVID-19 epidemic for cumulative number of infected cases using data available in early phase was big challenge. Being COVID-19 pandemic during very short time span, it is very important to analyze the trend of these spread and infected cases. Speaker explained prediction of COVID-19 using Prophet algorithm indicating more faster spread in short term. These predictions will be useful to government and healthcare communities to initiate appropriate measures to control this outbreak in time.

Session 12: (2:00 PM to 3:30PM) Valedictory Function

In valedictory session, number of participants was approximately 50 along with Principal of the oxford college of Engineering, Bangalore. Many participants have given the feedback and suggestions for the speakers and overall FDP.

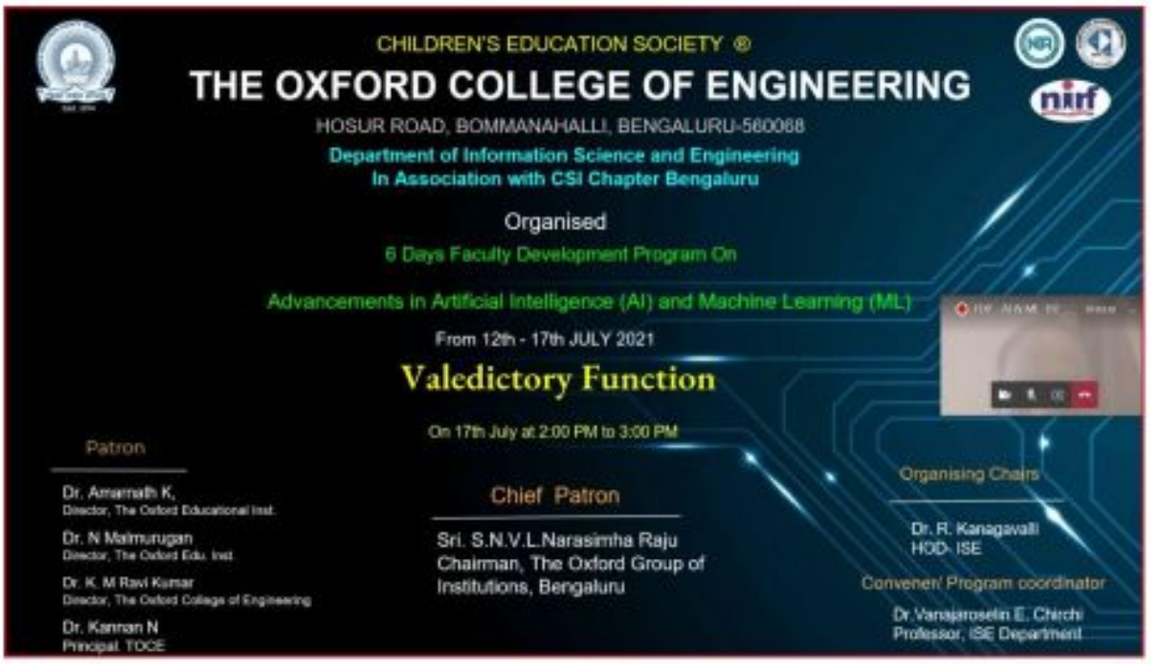
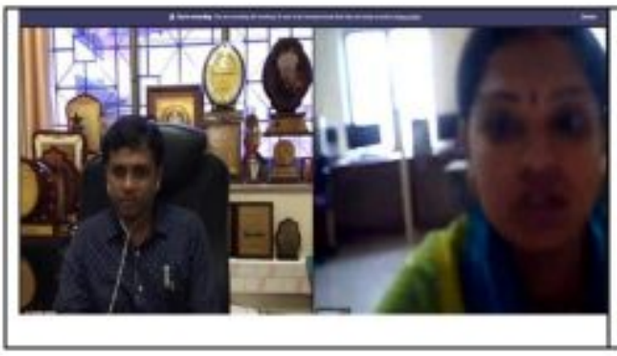


Photo Gallery of FDP



Feedback Analysis:

Questions	NA	Poor	Good	Very Good	Excellent
How Do you rate the content of the Speech?	-	-	30	20	20
Feedback on speakers					
Prof.Dr.Ciro Rodriguez	-	-	15	25	30
Prof.Dr.Vinay Kulkarni	-	-	25	15	40
Prof.Dr. Mahesh Kumar Kolekar	-	-	10	25	35
Prof.Dr. P. Radha Krishna	-	-	10	20	30
Prof.Dr. Shashidhar G Koolagudi	-	-	20	25	20
Prof.Dr. Layak Ali	-	-	20	15	25
Prof.Dr. Damodar Reddy Edla	-	-	20	20	25
Prof.Dr.Parikshit N. Mahalle	-	-	20	15	20
Mr.Chetan Adhikari.Y	-	-	20	10	20

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Website: www.theoxford.edu.

Academic year 2020 -21 (Oddsem)

Report on

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

The Virtual Faculty Development Program on was conducted from 12.07.2021 and 17.07.2021(6 days) in a effective manner and was very successfully completed with the support and encouragement of our Management, Directors, Principal, Conveners and all the Head Of Departments, Co-ordinators. All the faculty members, students supported a lot to make this event successful which enhance the knowledge as well as brought the results of team work. All the sessions were conducted in Microsoft Team App (online mode).

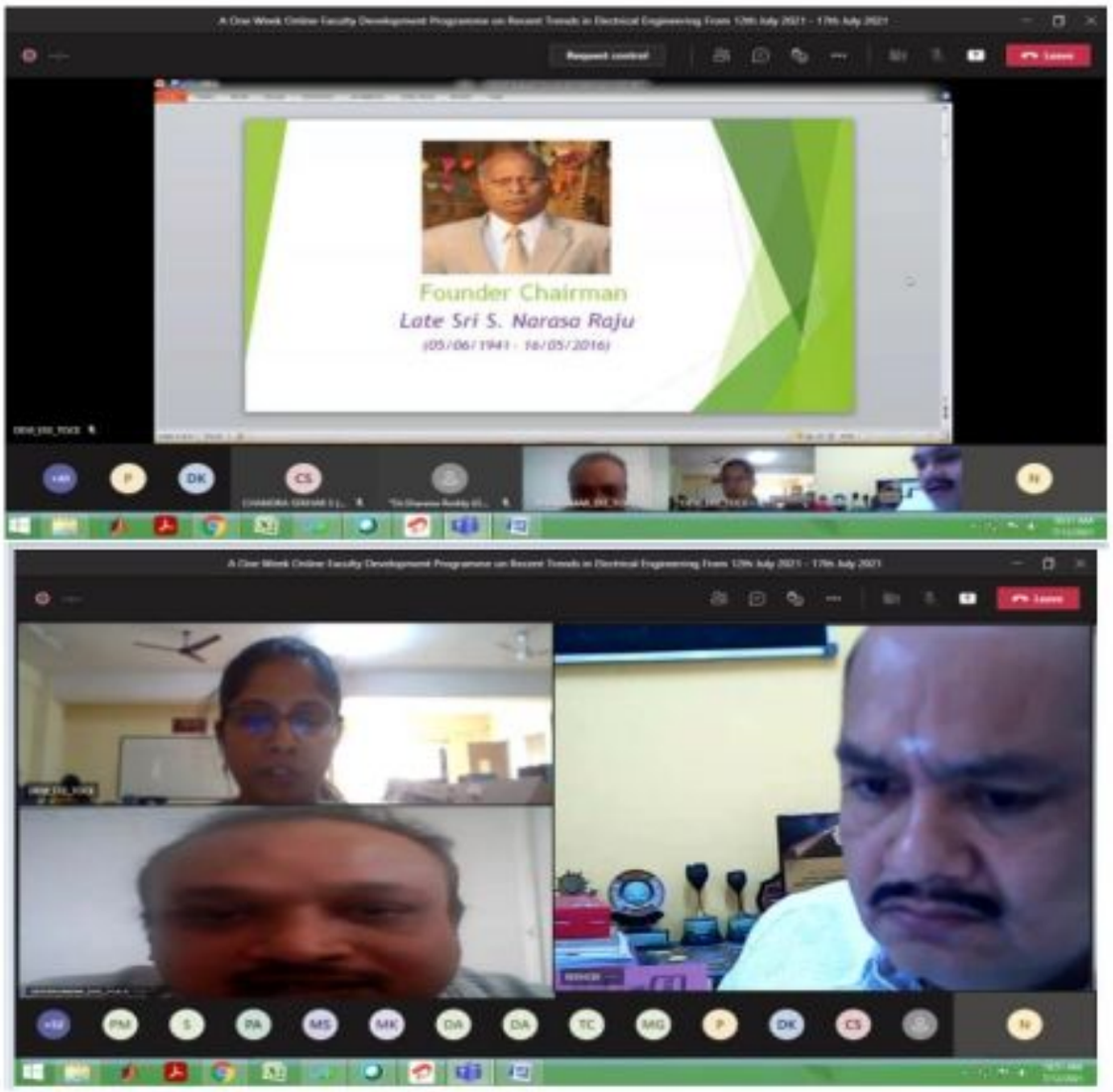
A one week Faculty Development Program (FDP) on Recent Trends in Electrical Engineering was organized at the Department of Electrical and Electronics Engineering, The Oxford College of Engineering Bangalore from 12thJuly 2021 to 17thJuly 2021 in association with ISTE Students Chapter. The main objective of this program is to make the participants aware of the recent trends in Electrical Engineering so that they can update their knowledge in this area and explore for further research. The objective also included that the knowledge gained and shared would help the faculties to guide students to pursue their career and research works. The FDP was attended by 209 participants from faculty members& Research Scholars of EEE, ECE, ME, Basic Science department of different colleges from various Parts of India

Brochure of the 6 days FDP in Recent Trends in Electrical Engineering

Inaugural Program of the Faculty Development Program

The FDP started with a formal inaugural session compered by Dr Devi Vighneshwari ,Associate Professor, Dept of EEE , with an invocation song by Sahana G H(6thsem EEE student). Dr.Bharath, Professor and Head of the Department of Electrical and Electronics Engineeringextended a warm welcome to all the respected dignitaries and participants. He also shared his views about the Faculty Development Program and importance of attending such program for the enhancement of knowledge of the faculties and students Introduction to the Faculty Development Program was given by FDP coordinator,NJayakumar ,Associate

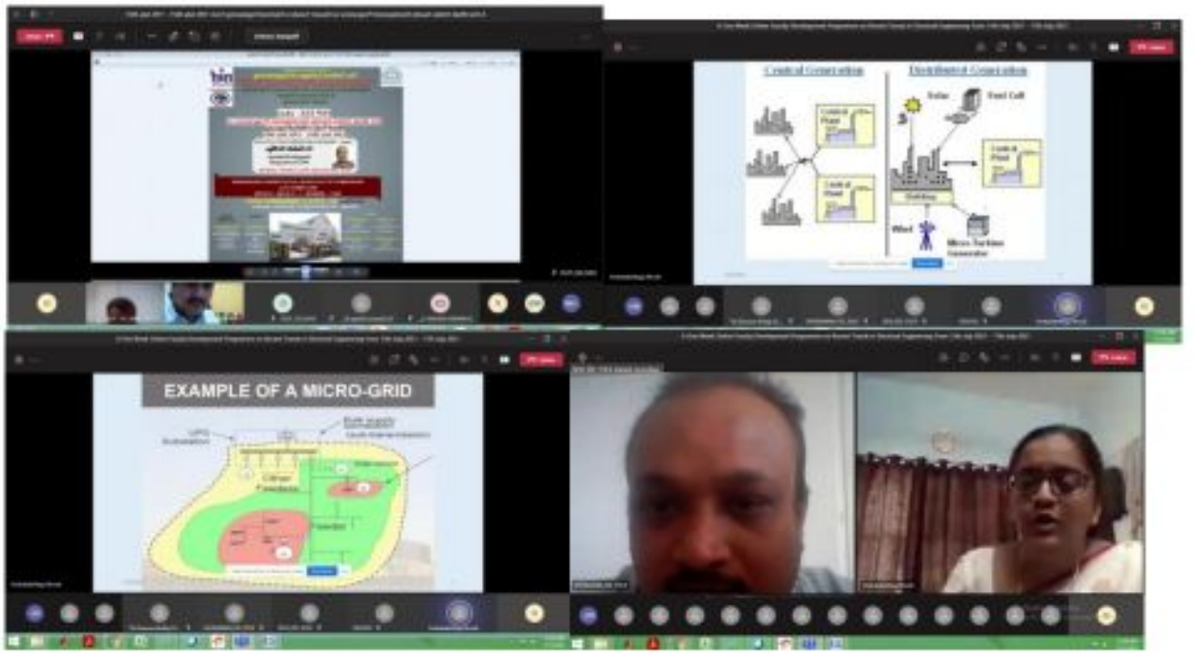
Professor, Dept of EEE.He has highlighted the objectives of the FDP and briefed about the schedule of the program. He also gave a glimpse of the activities goingon in EEE dept TOCE.



Inaugural Program of the FDP on "Recent Trends in Electrical Engineering"

Day1: 12th July 2021Session 1(11:00 AM- 12.30 PM)

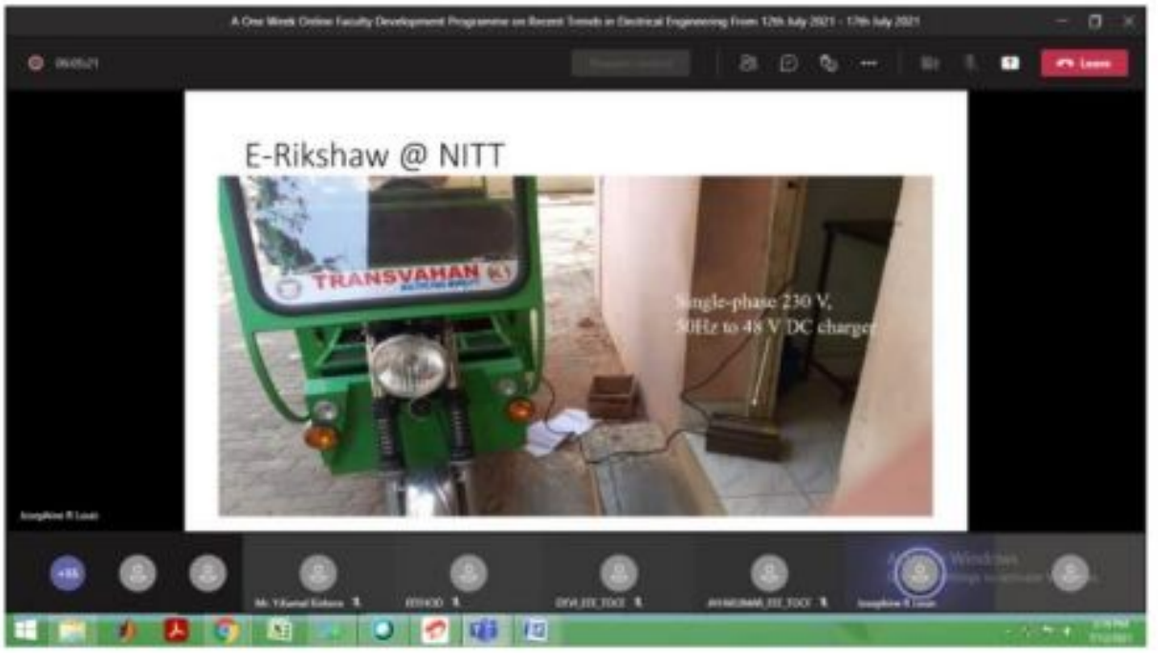
The first talk was delivered by :Dr.VenkataKirtiga ,Associate Professor,EEEdeptNIT,Tiruchirapalli on "Modern Distribution System". Mrs Nisha C Rani,Associate Professor ,EEE dept has delivered the welcome speech and introduction about the resource person. The resource person has explained about modern power system and emphasised on microgridplanning, various factors considered in restructuring and conceptual design issues. At the end of the session, Mr.N Jayakumar, Associate Professor, Dept, of EEE,deliveredvote of thanks to the resource persons and all the participants.



Day 1 Seesion 1

Day1: 12th July 2021 Session 2(2:00 PM- 3.30 PM)

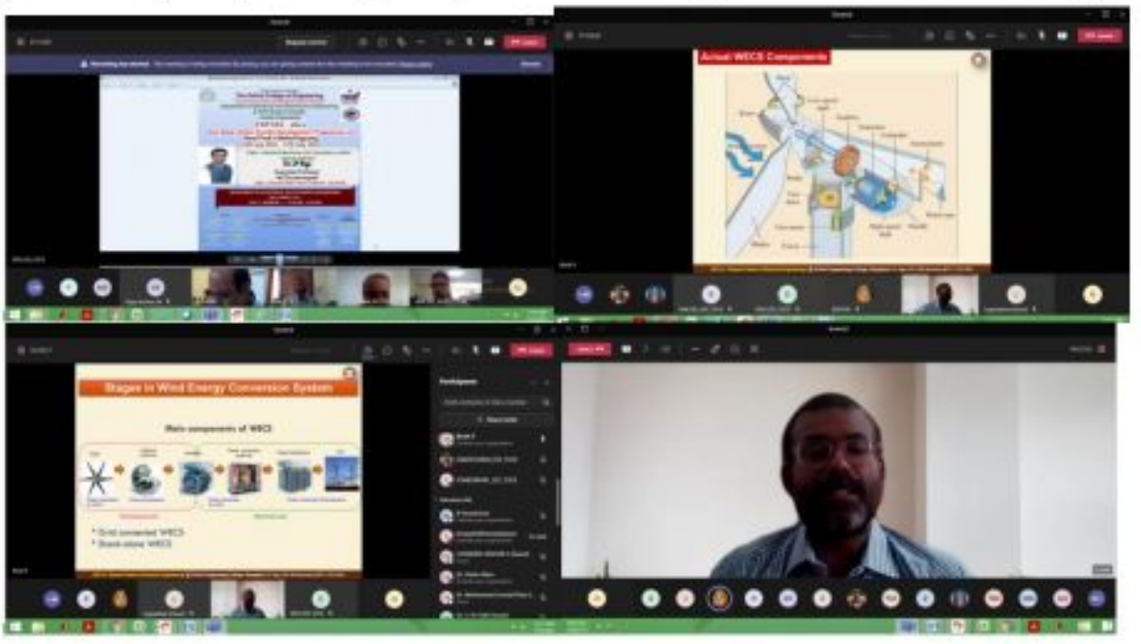
The next technical session was handled by Dr Josephine ,Assistant Professor, EEE deptNIT,Tiruchirapalli on Trends in Electric Vehicles .Dr Josephine has spoke about the Battery Management system and Battery Technologies with Power Electronics. She has detailed about EV battery chargers evolution and challenges.The welcome address and vote of thanks to the resource person and all the participants was done by Mr.NJayakumar ,Associate Professor ,EEE department.



Day 1 Seesion 2

Day2: 13th July 2021 Session 3(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 Systemby Dr.P Raja ,Associate Professor,EEEdeptNIT,Tiruchirapalli. Dr.P Raja has given a detailed explanation about wind energy conversion systems and its controls. Also he has detailed about the performance of Wind energy Conversion Systems.The welcome address and vote of thanks to the resource person and participants was given by Mrs Raichel Ruby Associate Professor EEE dept



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

Title :Recent Trends in VLSI technologies an Automotive Perspective
Resource Person: Mr SivaramasubramanianNarayanan,Hardware Technical expert Robert Bosch Engineering and Business Solutions Bangalore

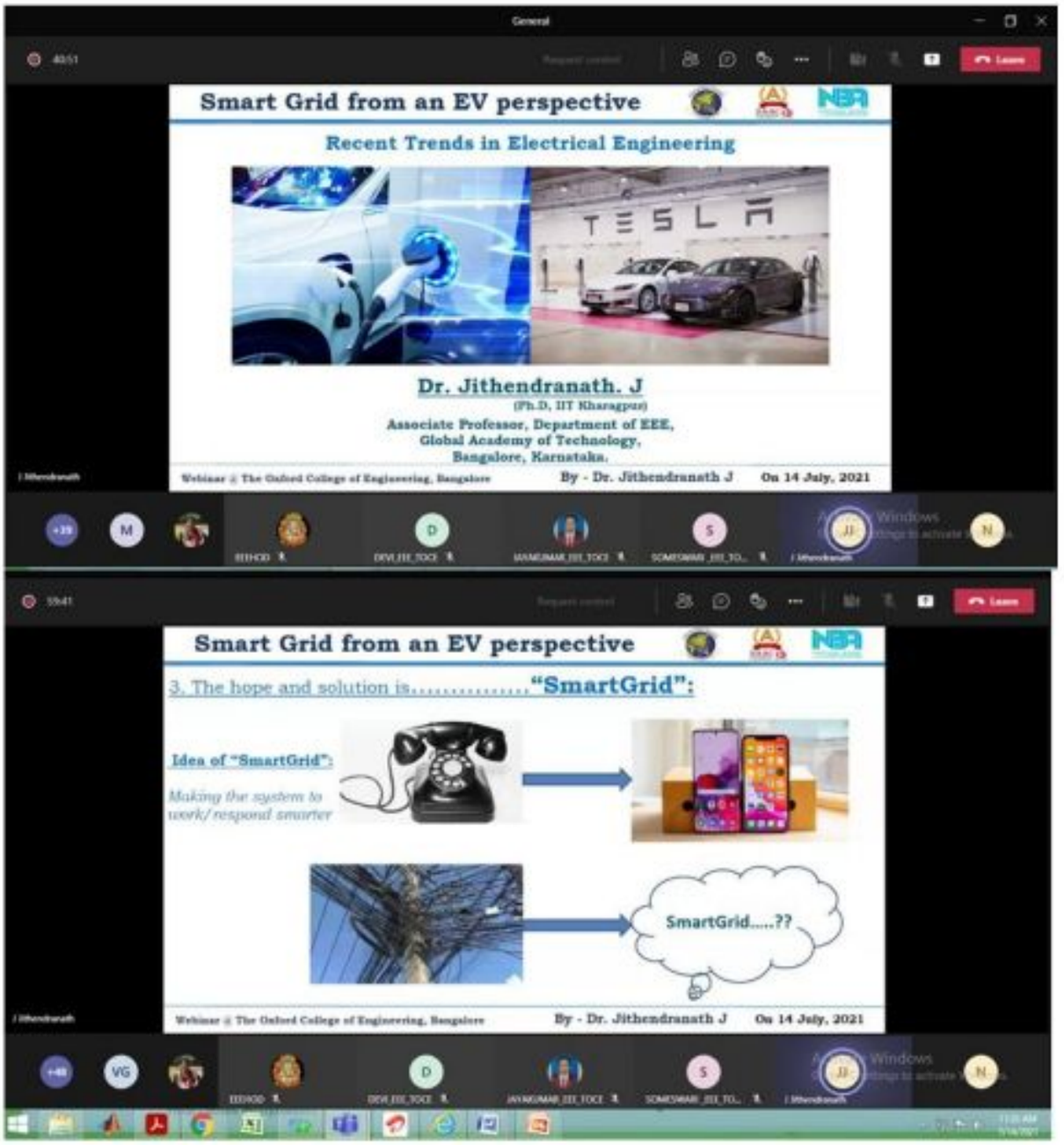
The fourth technical session was handled by Mr Sivaramasubramanian Narayanan,Hardware Technical expert Robert Bosch Engineering and Business Solutions Bangalore.The Topic of the session wasRecent Trends in VLSI technologies an Automotive Perspective. He has explained about the semiconductor crisis due to pandemic and its impact on automotive field. The welcome speech ,introduction about the speaker and vote of thanks was given by Mrs.Nisha C Rani ,Associate Professor ,EEE dept.

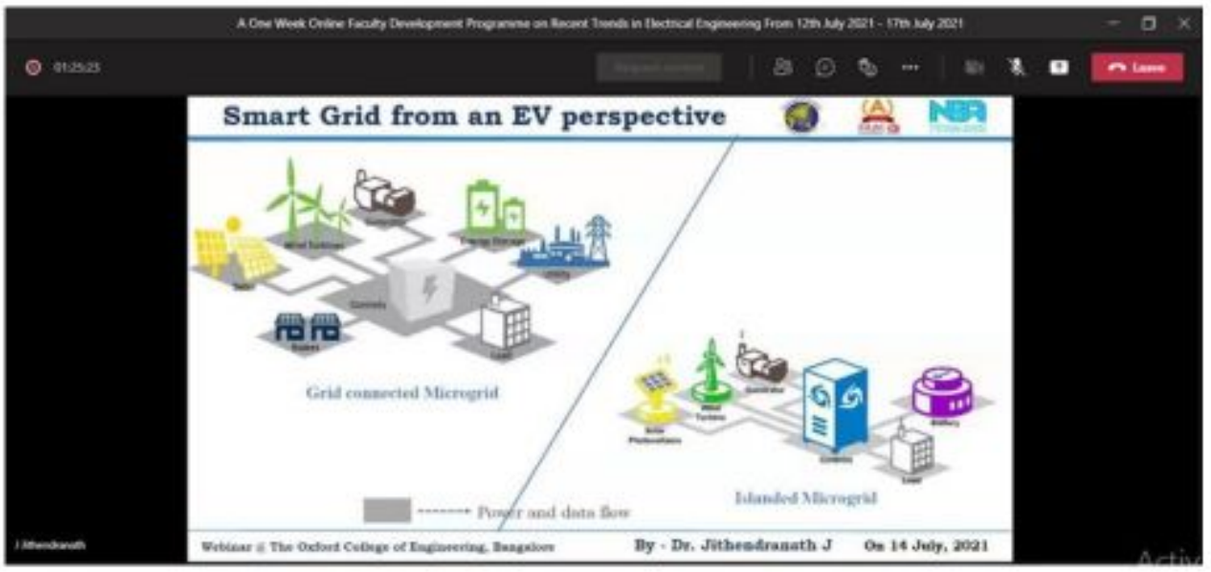
Day3: 14th July 2021 Session 5(11:00 AM- 12.30 PM)

Title : EV and Its Effect on Smart Grid

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

The next session was about EV and its Effect on Smart Grid . The session was handled by Dr.Jithendranath.He has given the overview of traditional power system and the challenges faced by the traditional grids. He has given a detailed explanation about smart grids, EV charging and grid interaction. The welcome address was given by Mrs SandhyaRai, Associate Professor,EEEdept and Vote of thanks was given by Mrs Someswari, Assistant Professor.

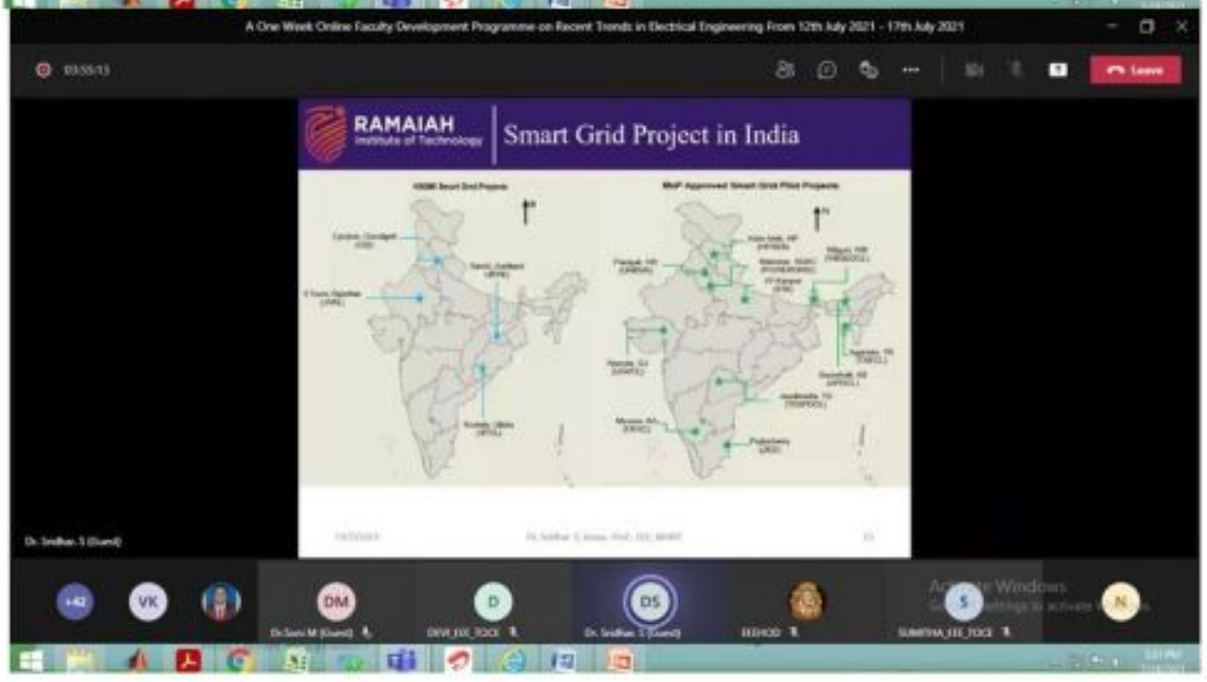


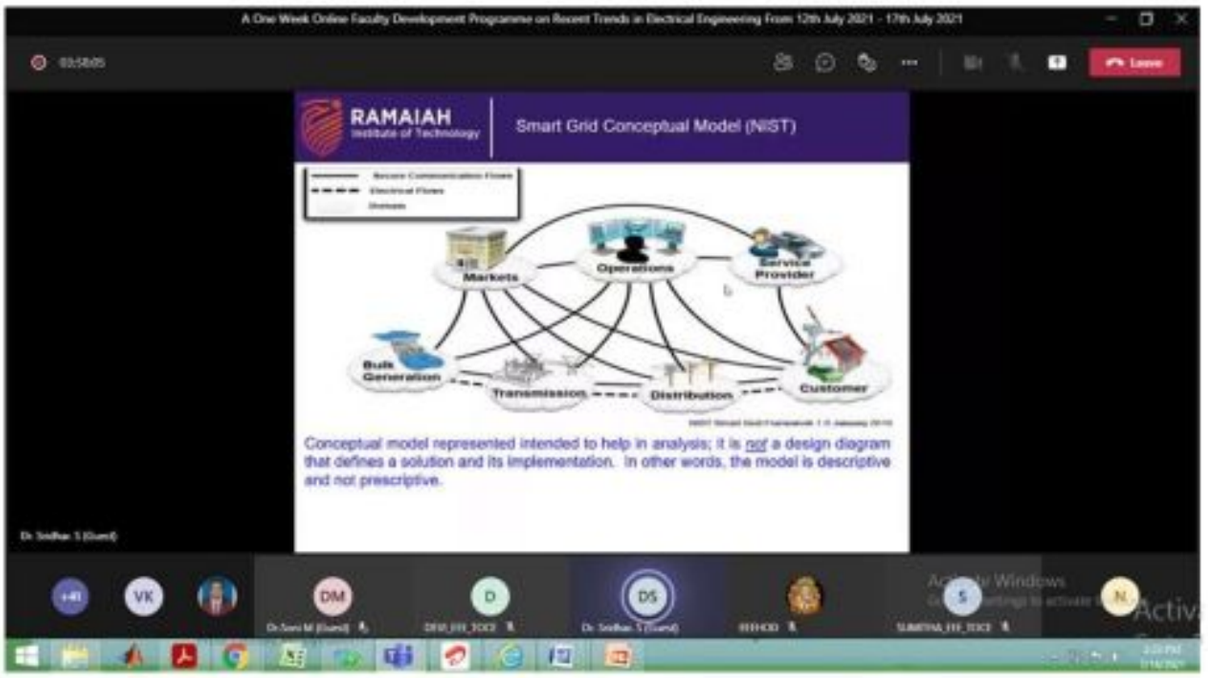


Day3: 14th July 2021 Session 6(2:00PM- 3.30 PM)

Tile :Smart meters in Smart Grid
Resource Person: Dr.SridharS ,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.

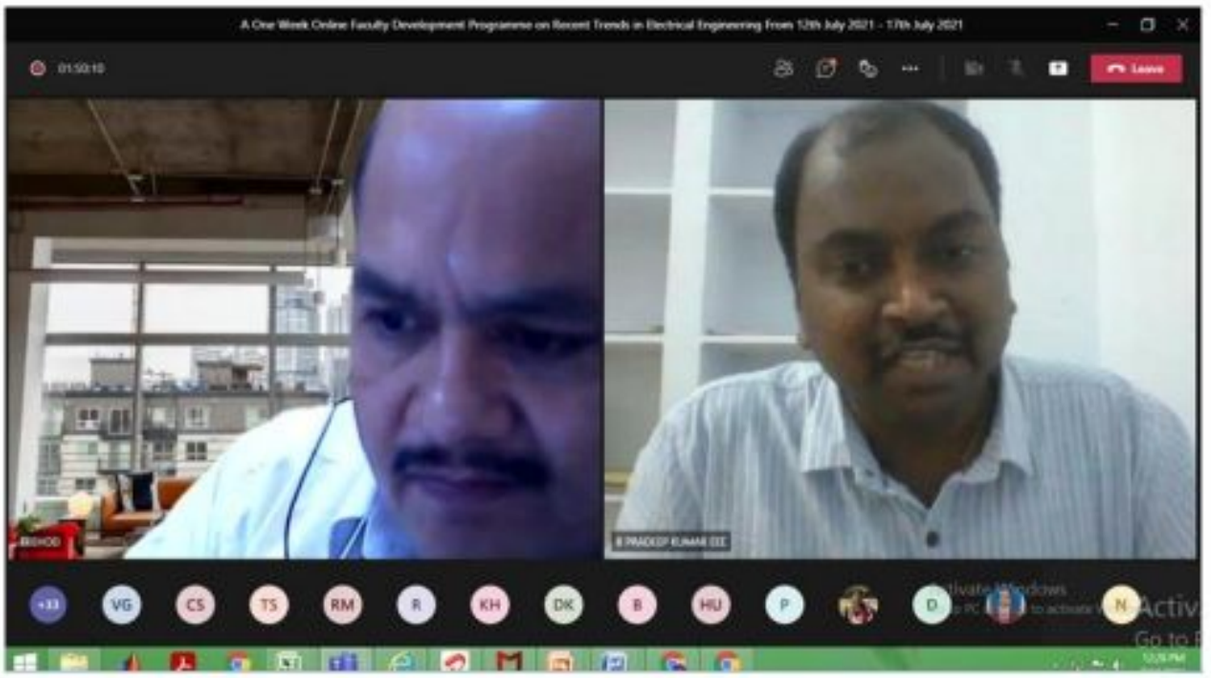




Day4: 15th July 2021 Session 7(11:00 AM- 12.30 PM)

Title :Introduction to Solar PV Systems
Resource Person: Dr.BPradeepKumar ,Assistant Professor,Kakatiya Institute of Technology and Science,Warangal.

The 7th session of the FDP was handled by Dr. B Pradeep Kumar. The topic was about Introduction to Solar PV system. The welcome address was given by Mrs SandhyaRai ,Associate Professor ,EEE dept.The speaker has given a very good overview about the solar PV systems and its characteristics. He has explained about the PV parameters and MPPT techniques. The vote of thanks was given by Mrs Someswari ,Assistant Professor ,EEE dept.

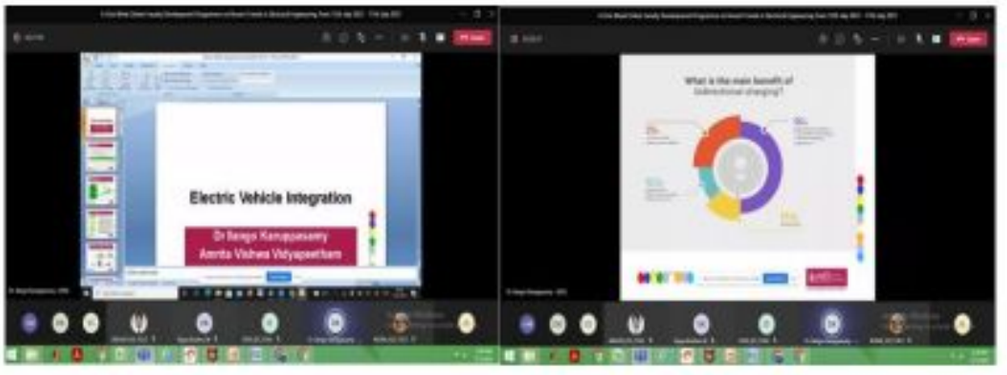


Day4: 15th July 2021 Session 8(2:00 PM- 3.30 PM)

Title :Grid Integration of Electric Vehicles

Resource Person: Dr.IlangoKaruppuswamy ,AssistantProfessor,Amrita School of Engineering Coimbatore.

The next session was about Grid intergration of Electric Vehicle handled by Dr.IlangoKaruppuswamy. 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 T L ,Assistant Professor ,Dept of EEE.

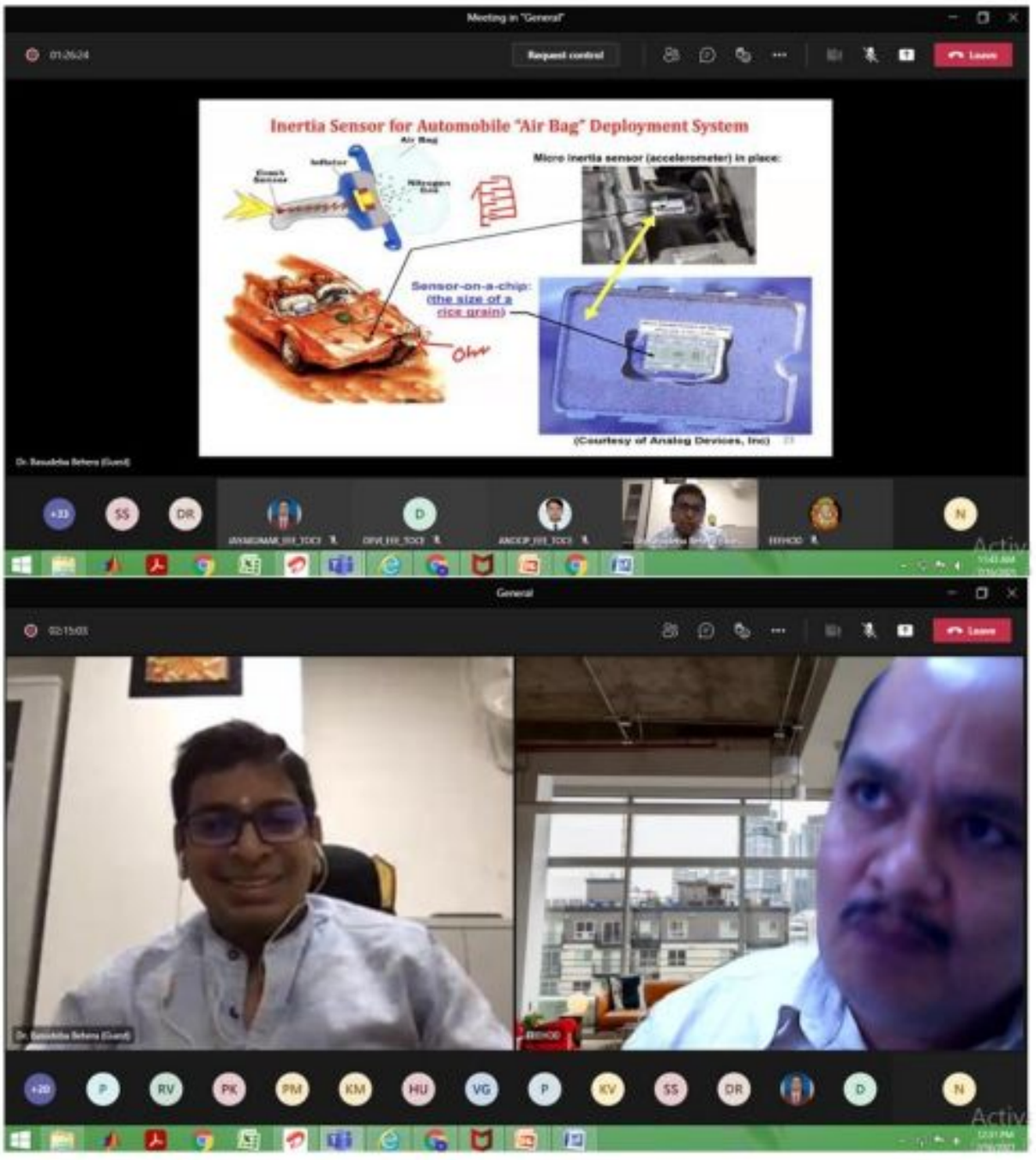


Day5: 16th July 2021 Session 9(11:00 AM- 12.30 PM)

Title :MEMS devices in Real World Applications

Resource Person: Dr.BasudevaBehera ,AssistantProfessor,NIT Jamshedpur

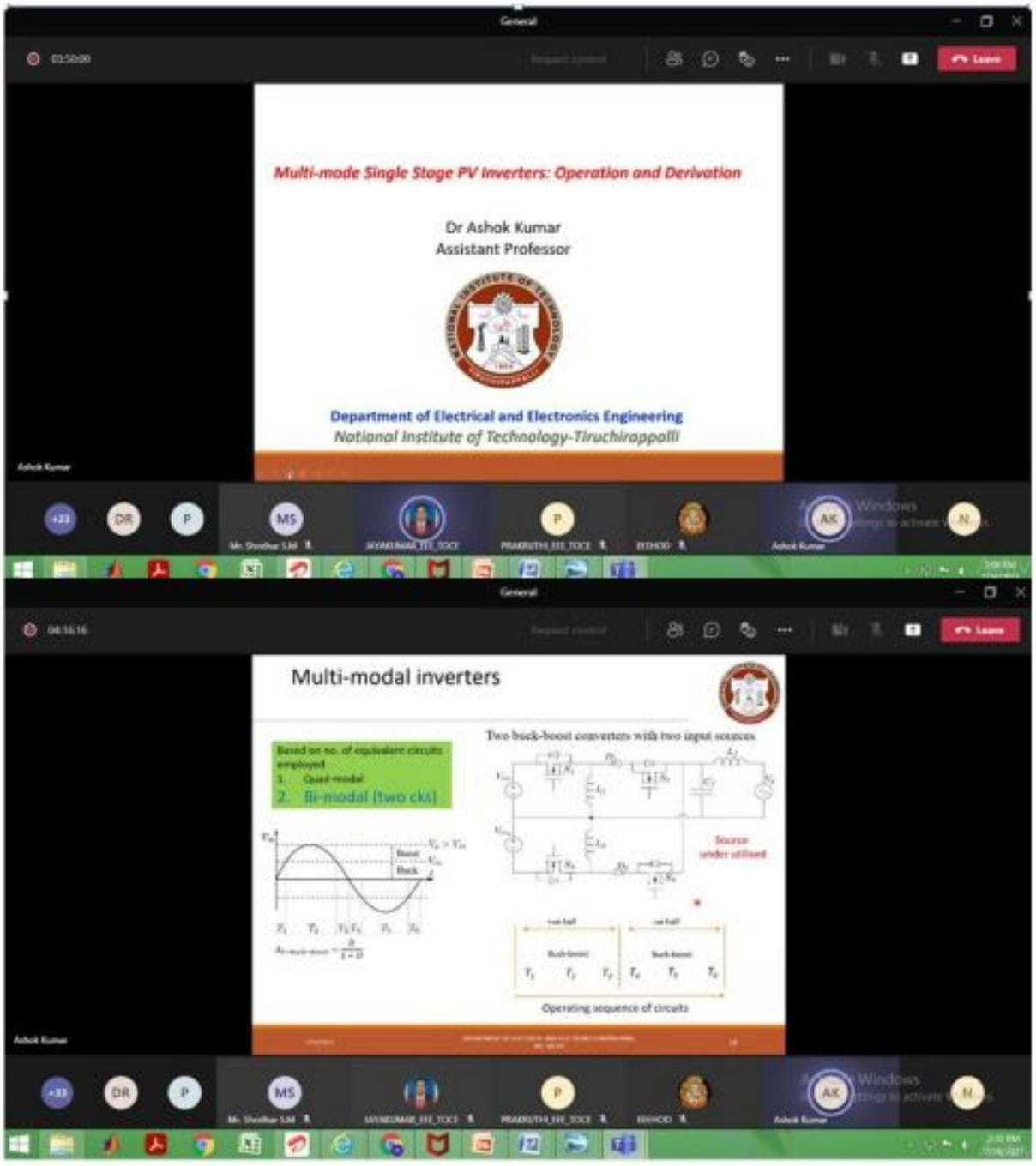
The fifth day of the FDP started with a session by Dr BasudevaBehera on MEMS devices in real applications. The welcome address was given by Mr Anoop , Assistant Professor ,EEE dept . He has given a detailed explanation about the different types of MEMS actuators.The vote of thanks was given by Mrs Manjushree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



Day5 : 16th July 2021 Session10 (2:00 PM- 3.30 PM)

Title :Multimode Single stage PV inverters:Operation and Derivation
Resource Person: Dr.AshokKumar ,AssistantProfessor,NITTiruchirapalli

The 10th session was handled by Dr Ashok Kumar. The topic was Multimode Single stage PV inverters.The welcome address is given by Mrs Prakruthi ,Assistant Professor ,EEE dept.He has explained about the multi level inverters and its operation. Vote of thanks was given by Ms Poornima ,Associate Professor EEE dept

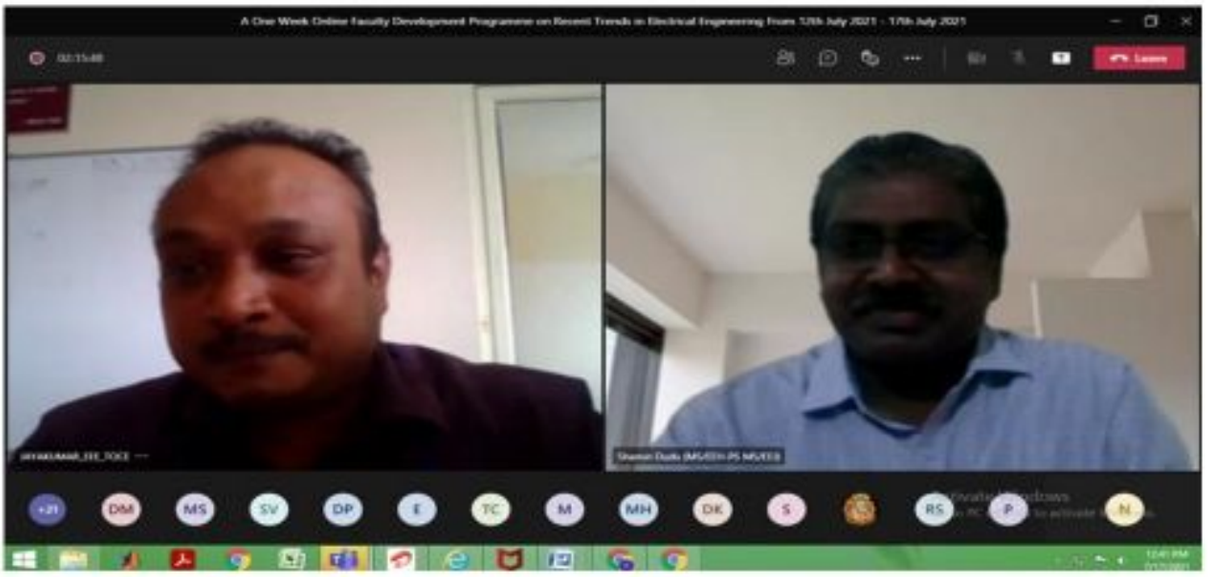


Day6 : 17th July 2021 Session 11 (12:00 AM- 12.30 PM)

Tile :Embedded System Challenges and Electrical Applications in Automotive
Resource Person: Mr Shamin Dudu TS ,General Manager, Power train Emobility, Robert Bosch Engineering and Business solutions Ltd Bangalore

The last day of the FDP started with the session by Mr Shamin Dudu T S on Embedded System Challenges and Elctrical 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 : 17th July 2021 Session 12 (2:00 PM- 3.30 PM)

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 dynamicsand 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 asWell 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.

Valedictory Event :

On17.07.2021 at 3.30 P.M , we had a Valedictory session with Our HOD, Co ordinator and all the faculty memberswith 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 members 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.

Feedback from the Participants :

Overall feedback from the participants expressed their happiness and great learning

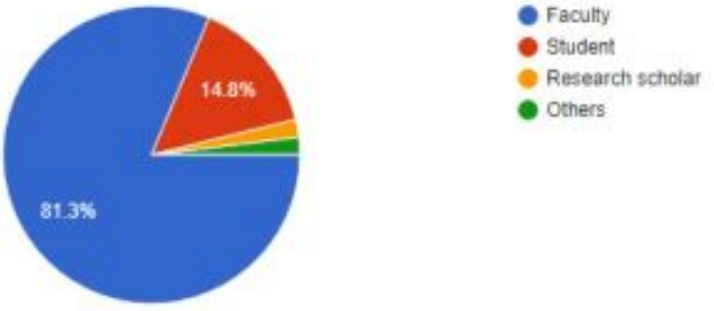
Throughout the sessions. All the participants were well satisfied with the speakers and their delivery of knowledgesharing.

Registration Details

The FDP was attended by 209 participants from faculty members& Research Scholars of EEE, ECE, ME, Basic Science department of different colleges from various states all over India. The participants includes faculties , PG students , Research Scholars and from industries

Profession

209 responses



State:

209 responses

Co ordinator **HOD /EEE**

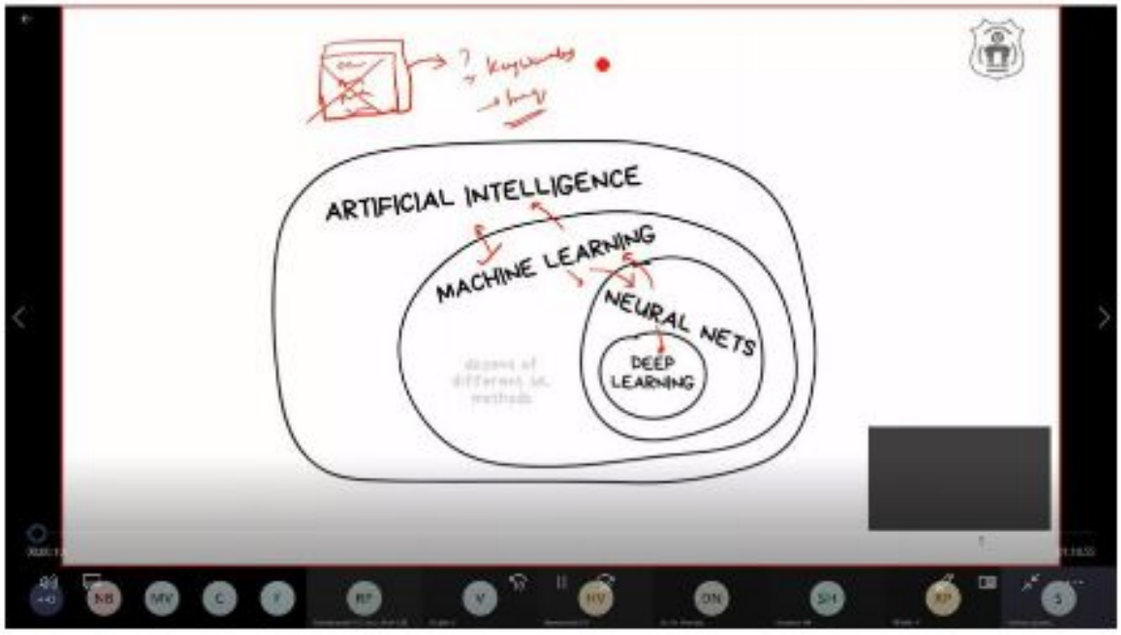
(Jayakumar .N)Dr.V.S. Bharath

Introduction to ML and Applications

Speaker: DR.M. Srinivas

Date: 26-7-21 FN

Machine Learning is a field in computer science that learns from experience without being programmed. It is a part of Artificial Intelligence, or we can say that machine learning is a sub topic of Artificial Intelligence. The science behind ML is to make computers perform actions by themselves. A Machine Learning algorithm is a generic program that will understand the data, and build models with that data. These models are available for the end users to carry out tasks. Initially, Machine Learning was just about pattern recognition. It was also defined as the ability of the computers to learn through an iterative process without being programmed explicitly. With increasing data day by day, and invent of big data, machine learning has taken a fresh turn. Now machine learning algorithms are able to automatically calculate highly complex calculations over big data. Some major example in this field includes fraud detections, online recommendations, etc. These mathematical calculations are being done at a high speed and accuracy.



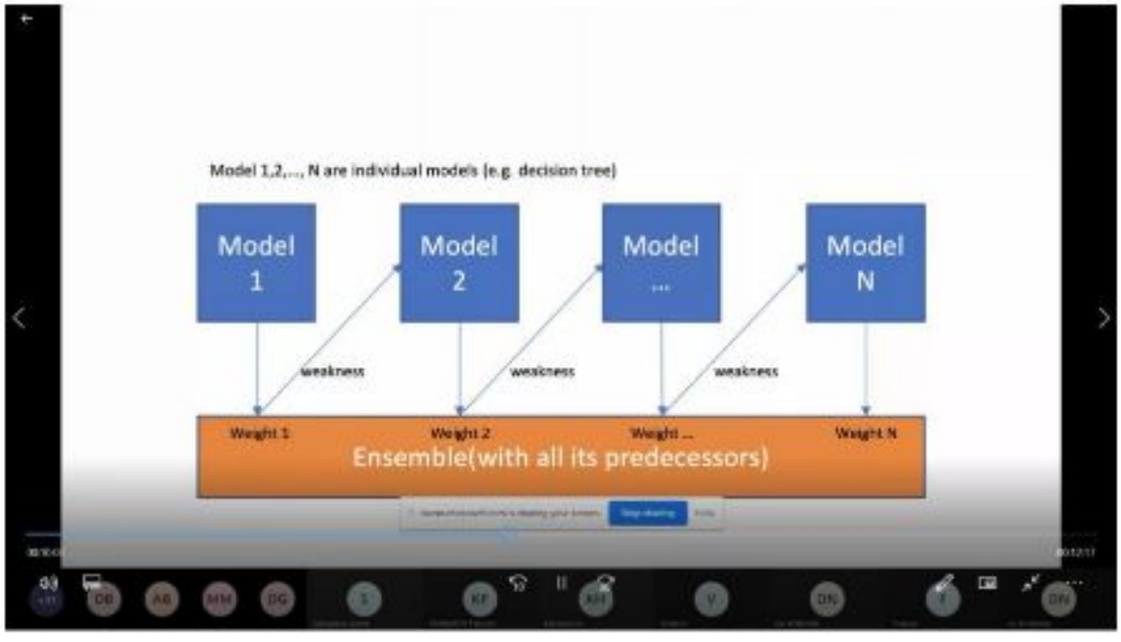
Ensemble Learning

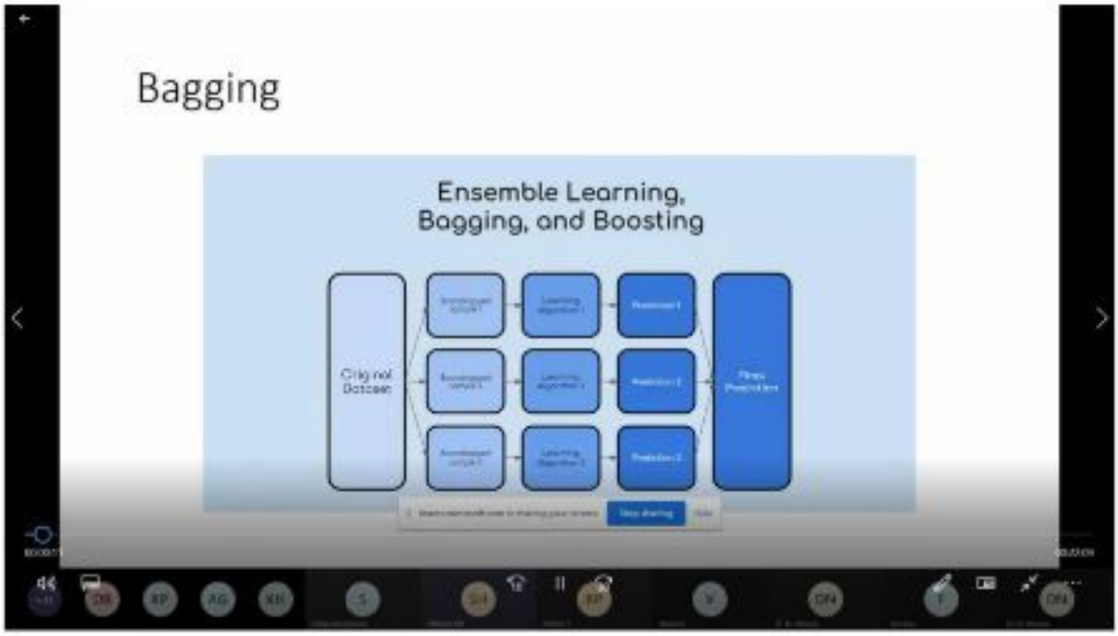
Speaker: DR.Ramalingasamy Cheruku

Date : 26-7-21 AN

Ensemble learning refers to algorithms that combine the predictions from two or more models. Although there is nearly an unlimited number of ways that this can be achieved, there are perhaps three classes of ensemble learning techniques that are most commonly discussed and used in practice. Their popularity is

due in large part to their ease of implementation and success on a wide range of predictive modeling problems. The reason ensemble learning is efficient is that your machine learning models work differently. Each model might perform well on some data and less accurately on others. For a machine learning ensemble, you must make sure your models are independent of each other or as independent of each other as possible. One way to do this is to create your ensemble from different algorithms, as in the above example. Another ensemble method is to use instances of the same machine learning algorithms and train them on different data sets. For instance, you can create an ensemble composed of 12 linear regression models, each trained on a subset of your training data.





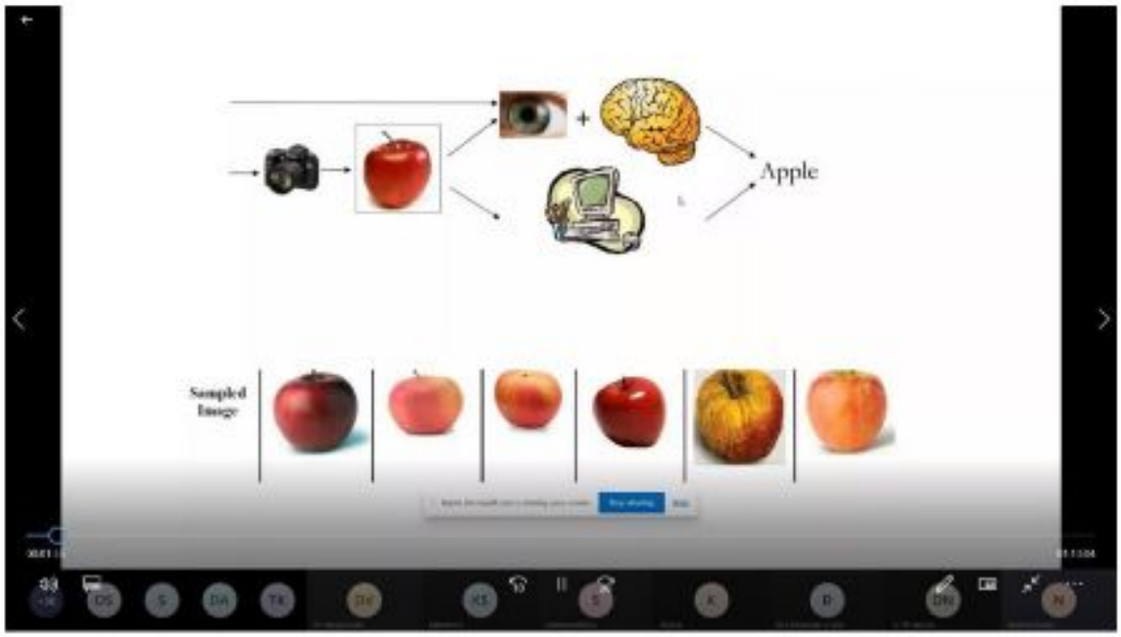
Object identification using Machine Learning

Speaker: DR.Neelima

Date : 27-7-21 FN

An image classification or image recognition model simply detects the probability of an object in an image. In contrast to this, object localization refers to identifying the location of an object in the image. An object localization algorithm will output the coordinates of the location of an object with respect to the image. In computer vision, the most popular way to localize an object in an image is to represent its location with the help of bounding boxes.

A better algorithm that tackles the issue of predicting accurate bounding boxes while using the convolutional sliding window technique is the YOLO algorithm. YOLO stands for you only look once and was developed in 2015. It is popular because it achieves high accuracy while running in real time. This algorithm is called so because it requires only one forward propagation pass through the network to make the predictions. Learned to combine the concept of classification and localization with the convolution implementation of the sliding window to build an object detection system.



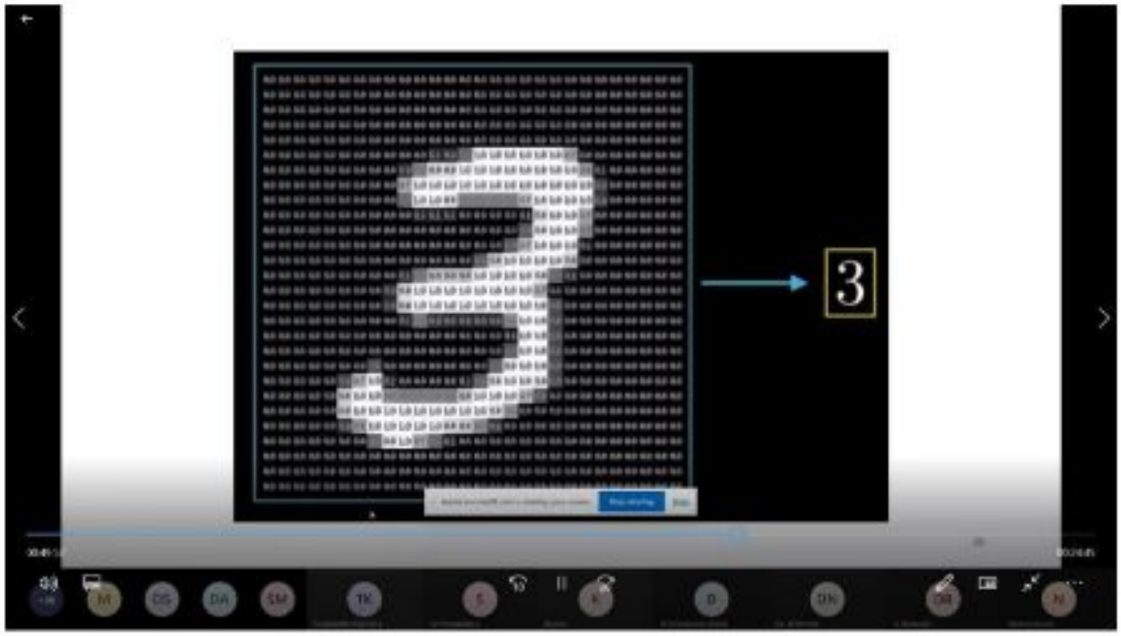
Recent Trends in AI

Speaker: DR.Vimal Kumar M

Date : 27-7-21 AN

In order to perform any human activity like cooking, household chores, etc., a RL agent needs to execute long sequence of instructions and generalise for new unseen subtasks. Sometimes, there would be other unexpected instructions like low battery, etc., which needs a deviation to be able to finish the rest of the subtasks. To achieve these goals, a generalised approach is proposed which takes sequence of tasks in natural language and executes the subtasks mostly sequential.For completing a multiple set of tasks, we need a policy that can understand the sub tasks and still finish the tasks optimising for the overall reward.

In order to regularise deep neural networks, several methods like batch normalisation, whitening neural networks (WNN) are used. To apply whitening, the computational overhead of building covariance matrix and solving SVD plays a bottleneck. Extending the class of faster computations, like FFT, Winograd, a Memory-efficient Computation (MEC) which lowers memory requirement and improves the convolution process is suggested. MEC takes rolling subsets of columns and expands them into rows to form a smaller matrix. This process is repeated along with Kernel matrix multiplication to produce efficient computation.

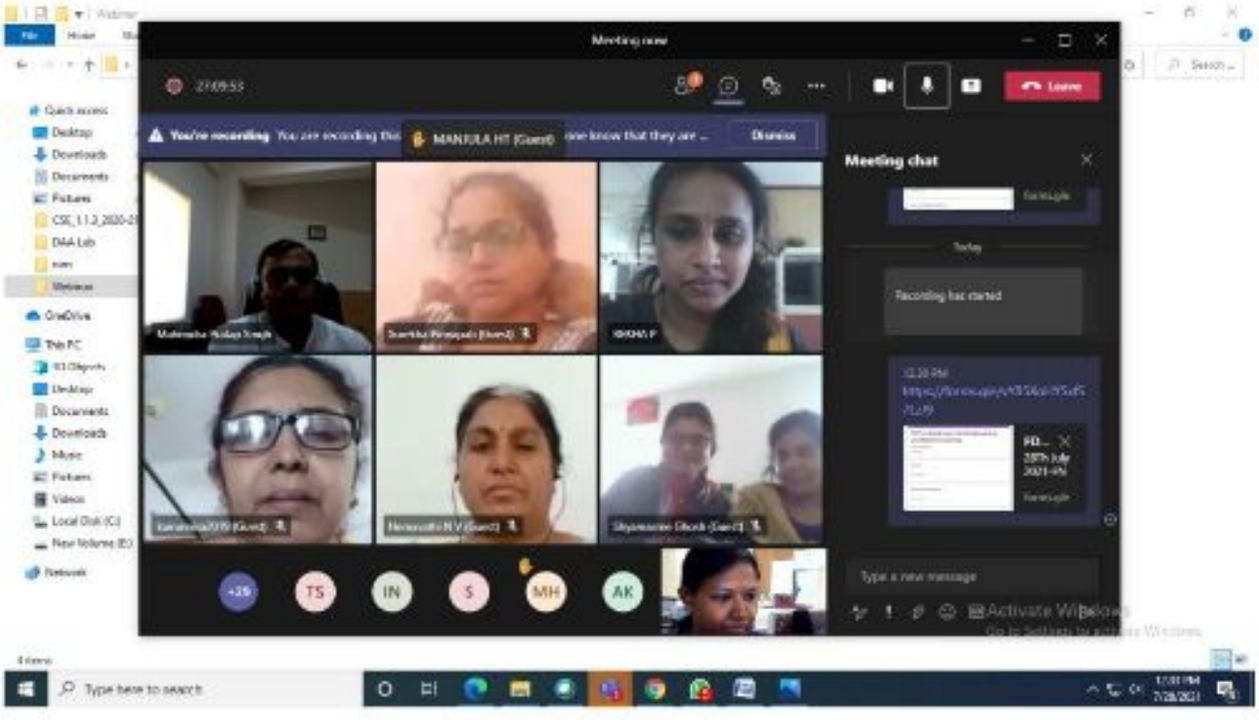


The role of Machine Learning in Cyber Security

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.

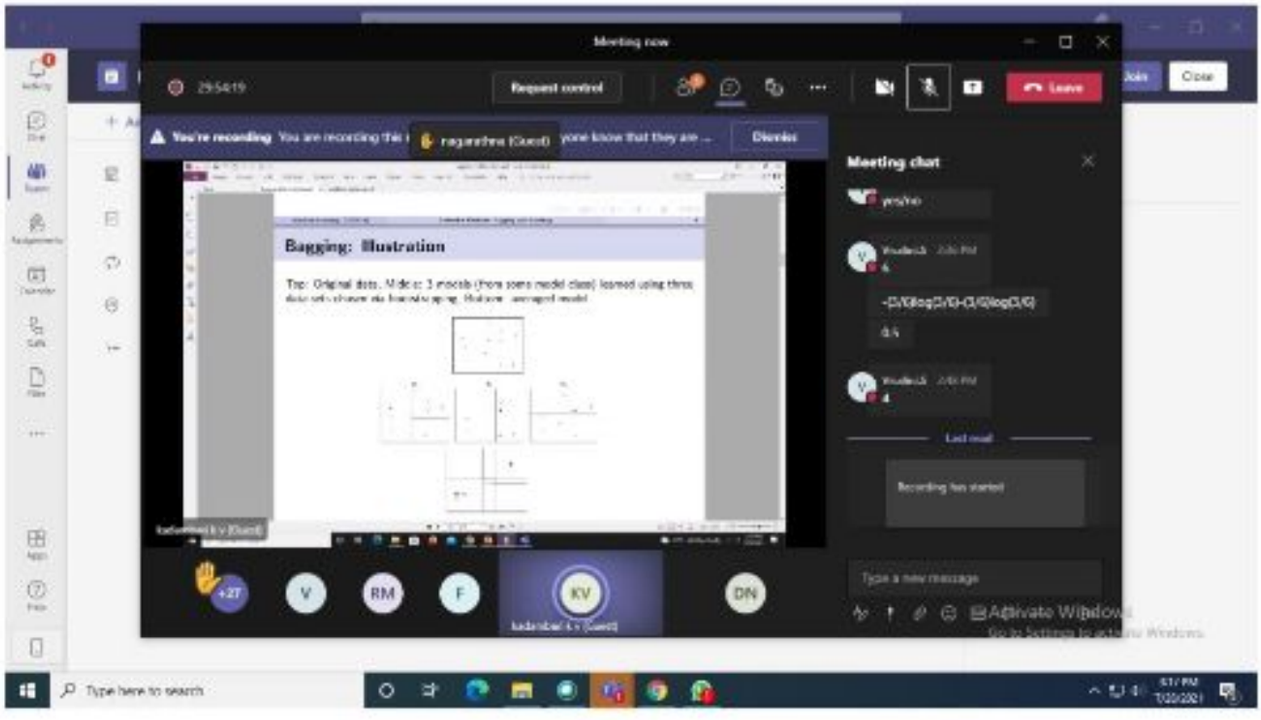


Decision Tress and Ensemble Learning

Speaker: DR.Kadambari

Date : 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 at every 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.

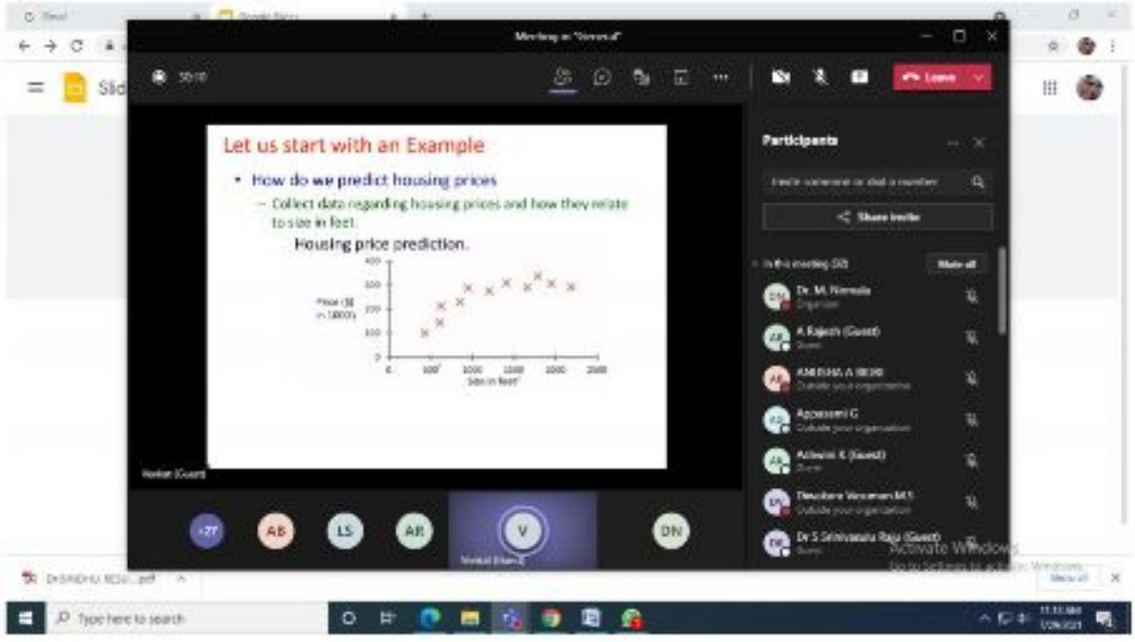


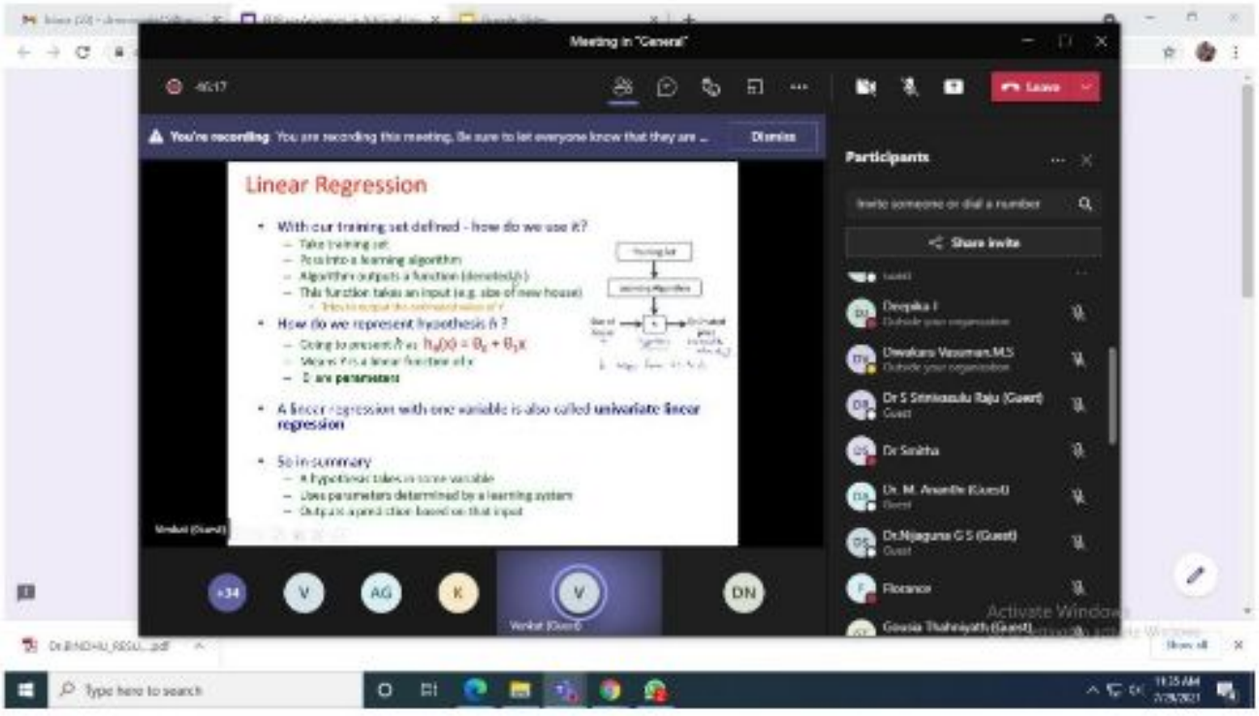
Regression Analysis

Speaker: DR.Venkateswara Rao

Date : 29-7-21 FN

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 variables and for modeling the future relationship between them.Simple linear 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.





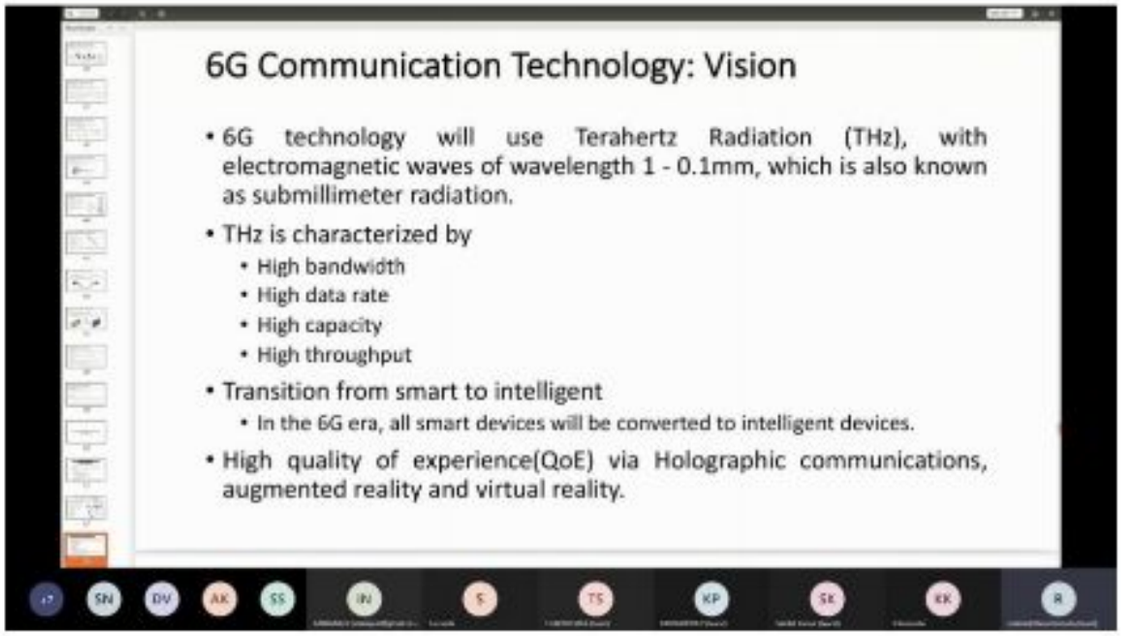
AI in computer Vision

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 feedforward neural networks that is largely inspired by the biological system, where the connectivity pattern between neurons depicts where each individual cortical neuron responds to stimuli only in the restricted region of the visual field known as receptive field, i.e., restrictive

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

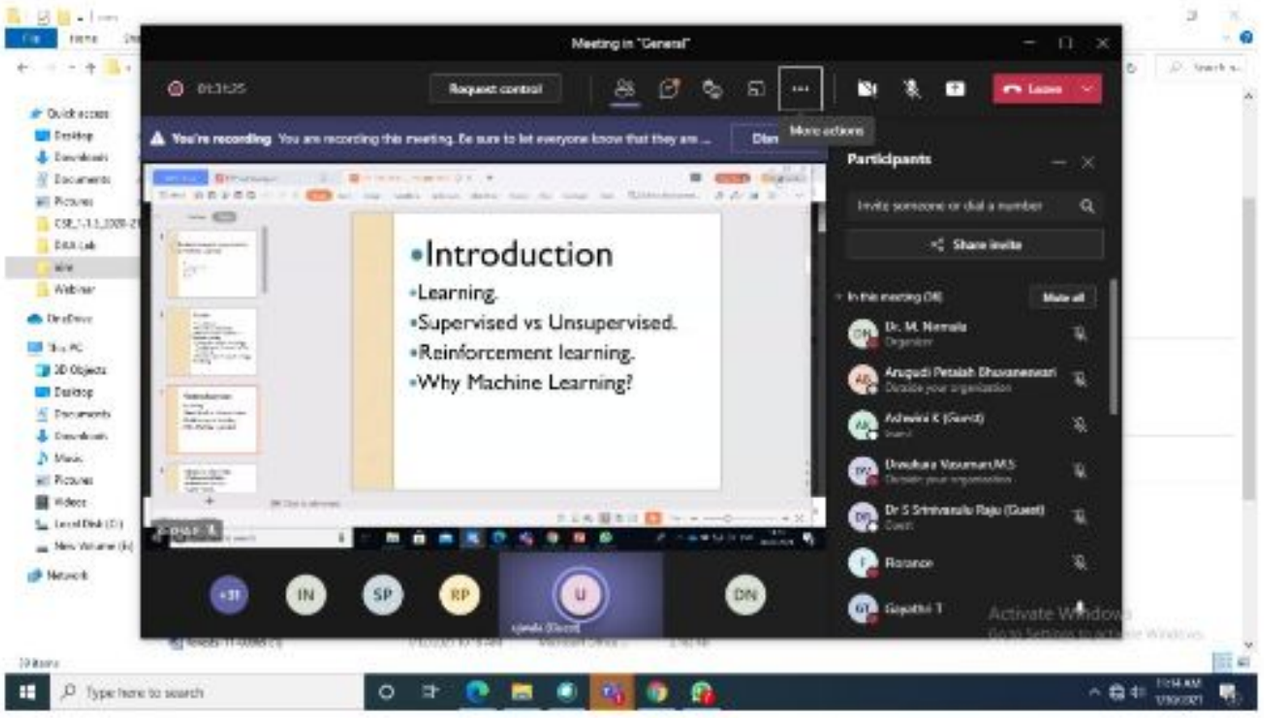


Probable Research opportunities in Machine Learning

Speaker: DR.Ujwala Barauh

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.



From Cloud to Edge computing

Speaker: DR.Anandhi Giridharan

Date : 30-7-21 AN

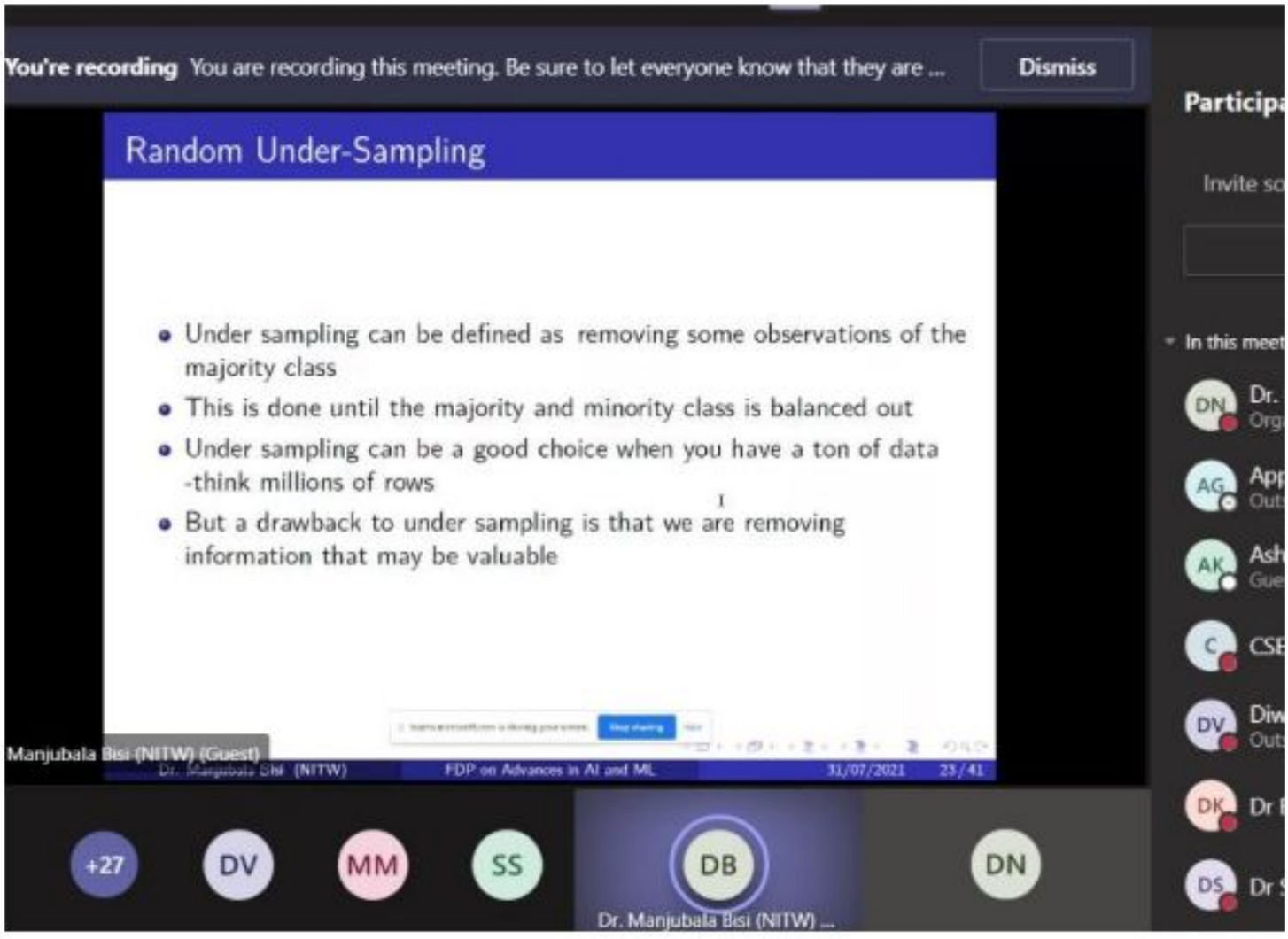
Edge Computing can support companies with computing tasks that cannot be done in the cloud and offers clear advantages when dealing with low latency, connectivity, security, or privacy, and transmitted data volumes are an issue. Edge and distributed cloud architectures will increase the speed of data 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 onboard 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.

Outlier and Imbalanced Concepts in ML

Speaker: DR.Manjubala Bisi

Date : 31-7-21 FN

Machine Learning algorithms tend to produce unsatisfactory classifiers when faced with imbalanced datasets. 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 the minority 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.The main objective of balancing classes is to either increasing the frequency of the minority class or decreasing the frequency of the majority class. This is done in order to obtain approximately the same number of instances for both the classes.



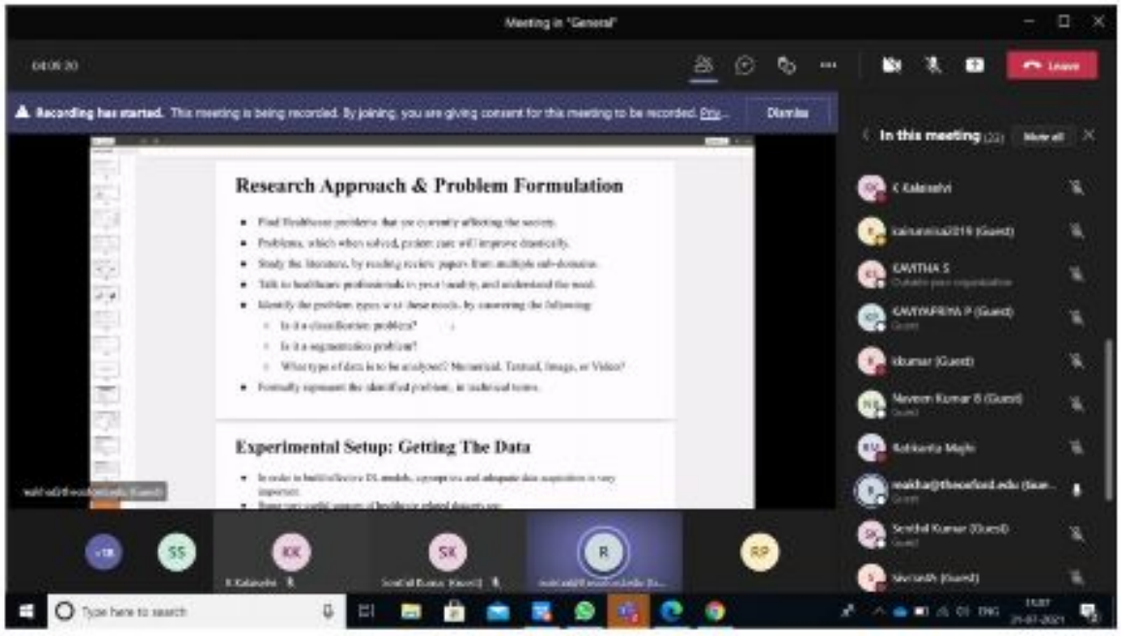
Healthcare using ML

Speaker: DR.Pinki Roy

Date : 31-7-21 AN

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 healthcare concepts being applied in medicine.

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 of 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 program ended with vote of thanks.