HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST
HICET

Hindusthan College of Engineering and Technology

An Autonomous Institution, Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai
Accredited by NBA (AERO, AUTO, CIVIL, CSE, ECE, EEE, IT, MECH, MCTS)
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Valley Campus, Coimbatore – 641 032, Tamil Nadu, INDIA
Tel: +91 422 4242424 www.hicet.ac.in

Report for Seminar organized / ~~participated~~

Name of the Faculty : Ms. Nivedha D R	
Department :Biomedical Engineering	Designation :Assistant Professor
Name of the Event: **A Seminar on Growth Opportunities in Medical Coding**	
Level : College level	
Venue / Mode: Ganga Hall	
No. of Days :1	Dates : 06.04.2024
Funded by : Management	
No. of Participants :	Registration charges (if any) :Nil
Faculties: 6	
Students: 98	
Externals: Nil	
Name and Designation of Resource Person(s) : Ms. Keerthika (Training Team manager), Akshaya (Talent Acquisition), Jasmin (Branch Head), Kowsalya (HR Executive)	
Objective: To provide the students with knowledge about medical coding and gain more information about the career and placement opportunities	
Outcome: The participants will identify a new domain, the techniques, placement opportunity and area of medical coding in biomedical engineering, enabling them to focus their goals effectively.	
Remarks and Feedback on the Event: An Eye opener in the area of Medical coding, the growth in the domain, as its new developing field for Biomedical Engineers	
Plan of Implementing in HiCET (if any) :-Nil	

Dr. D. Nivedha 6/4/24
Signature of the Faculty
D. R. NIVEDHA (AP/BME)

HoD

Principal

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Valley Campus, Pollachi Highway, Coimbatore 641 032.
www.hicet.ac.in

Report for Seminar.

Name of the Faculty : D.Vijayanandh, D.Deivasigamani	
Department : EIE	Designation : Assistant Professor
Name of the Event: Seminar on "Standards and Calibration" for Non Teaching Staff	
Level : Department Level	
Venue / Mode: EIE Lab / Physical	
No. of Days : 1	Date : 23.08.2023
Funded by : -	
No. of Participants : 12	Registration charges (if any) : NIL
Name and Designation of Resource Person(s) : Dr. Karpagam, Prof / EIE D.Vijayanandh, AP / EIE	
Outcome : At the end of the session they learnt how to calibrate the ammeter and voltmeter.	
Remarks and Feedback on the Event: Awareness given to all Non-Teaching Staff about Standards and Calibration. Training also provided on Calibration.	
Plan of Implementing in HiCET (if any) : -	
Signature of the Faculty HoD Principal	

PRINCIPAL
Hindusthan College Of Engineering & Technology
COIMBATORE - 641 032

Copy of the Event Brochure / Invitation:

Hindusthan College of Engineering and Technology

(An Autonomous Institution)

[illegible] Pollachi Main Road, Coimbatore-641032

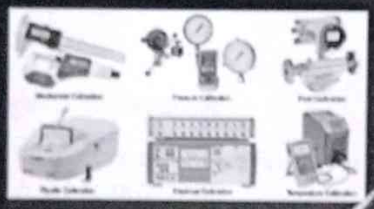
Department of Electronics and Instrumentation Engineering

in association with IQAC

Organizes

Seminar on Standards and Calibration

for All Non Teaching Staff



VENUE:
EIE Smart Classroom

Date: 23.08.2023
Time: 10.30 a.m to 04.30 pm

Coordinators	Convenor	Principal	CEO
Mr.D.Vijayanandh, AP/EIE Mr. D.Deivasigamani, AP/EIE	Dr.B.Anand HOD/EIE	Dr.J.Jaya HICET	Dr.K.Karunakaran

Geo Tagged Photographs of Event





Attendance

S.NO	NAME OF THE FACULTY	DEPT	SIGNATURE
1	G.A. Murugan	AERO	
2.	S.T. JESURAJAN	MECH	
3	R. Sivasankari	EEE	
4.	S. Ambiga	ECE	
5.	G. Senthil Kumar	Aero	
6.	N. Nagaraj	AIML	
7.	P. Usharani	MCA	
8.	M Vinotha	S&H	
9.	K. Aravindhan.	MCL	
10.	S. Muniasamy	ECE	
11.	P. Dhinakaran	S&H.	
12.	K. Gowthamy	EIE	

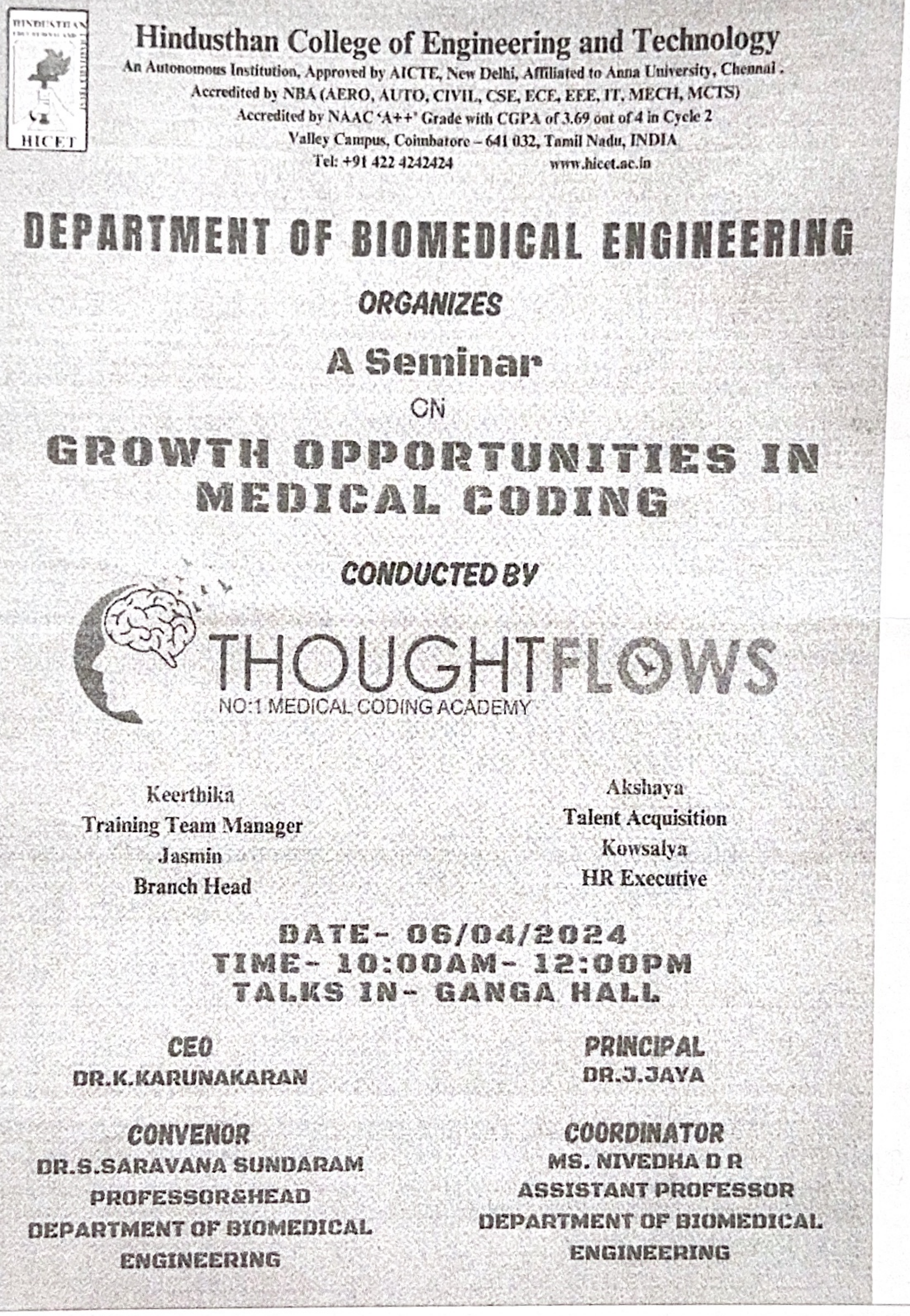
SRINIVASAN COLLEGE OF ENGG & TECH. - CSE - HOD

Category: IIC/MIC/ Self ✓

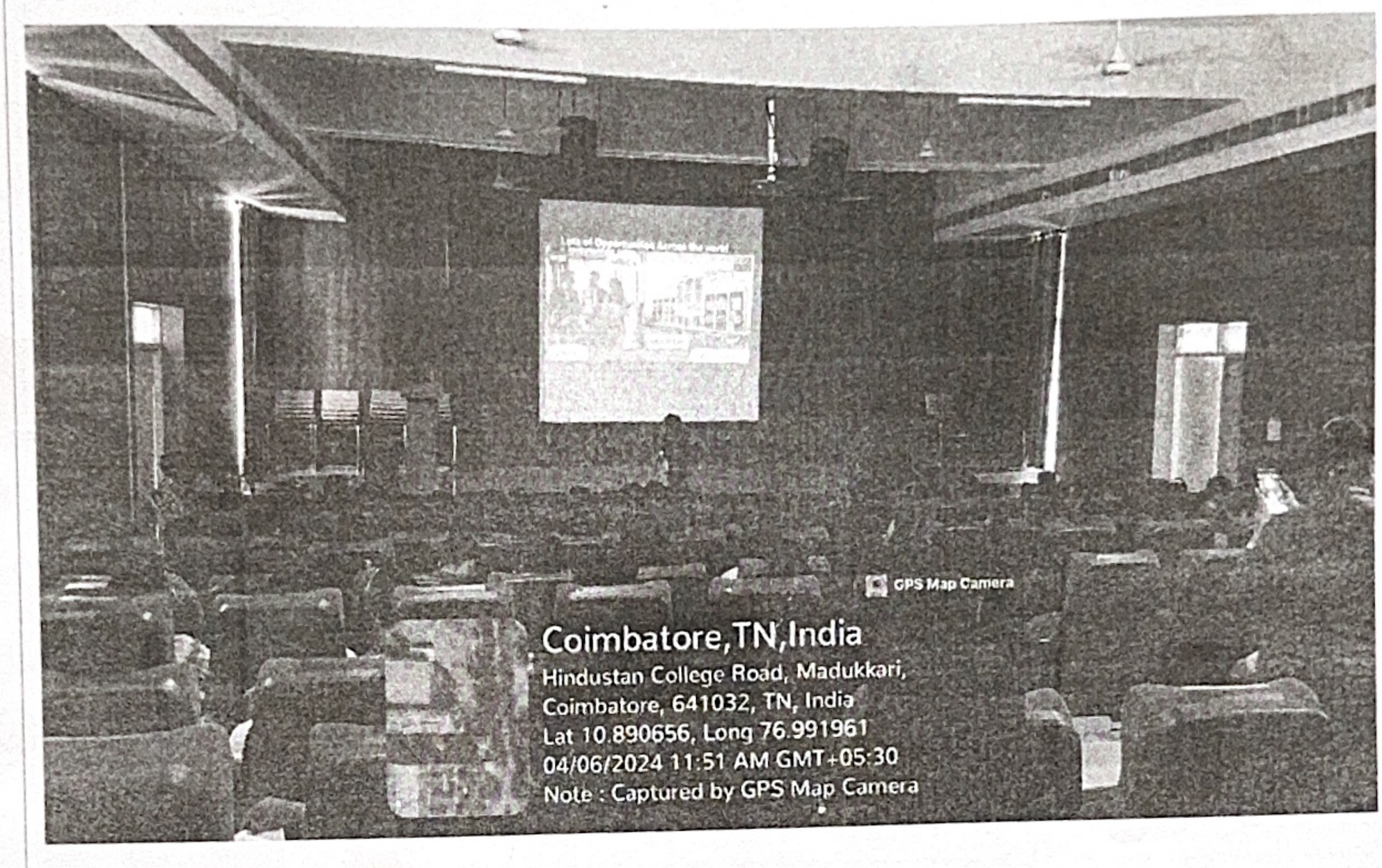
Name of Student Coordinator: —

Weather Event Brochure / Invitation Published in Social Media : Yes ✓ / No

If Yes, Mention Link details: https://www.instagram.com/p/C5ajX0FP6kQ/



Geo Tagged Photographs of Event





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DEPARTMENT OF BIOMEDICAL ENGINEERING

Seminar
On

GROWTH OPPORTUNITIES IN MEDICAL CODING

DATE: 06.04.2024 HALL: GANGA HALL

S. NO.	NAME OF THE STUDENT	SIGNATURE
1.	ABISHEK N	
2.	ADITHYA S	
3.	AKHILA ANWAR	
4.	AKSHAY KRISHNA	
5.	ALTHAF SHERIFF A	ABSENT
6.	ANANDHARAJ T	
7.	ANNAMALAI A	
8.	ASHIQUE ALI	ABSENT
9.	ASHOK KUMAR K	
10.	ASWIN RAJ J	
11.	BHARGAVI G	
12.	BHUVANESHWARAN B	
13.	GOKUL RADHA KRISHNAN	
14.	HARINE K R	ABSENT
15.	HARINI C	
16.	JANANI S	
17.	JAYAKUMAR V	
18.	JAYAPRIYA R	
19.	LIBI ACHENKUNJU	
20.	LOGESH M	

21.	MAHADEVAN M	
22.	MOHAMED FAHEEM A	
23.	MOHAMMAD FIRNAS	
24.	MUHAMMED HARIS U K	
25.	MUHAMMED NAFIH MASHAL	
26.	MUHAMMED NIHAL MADATHUMMAL	
27.	MUHAMMED NIYAS.C H	
28.	NAMO SRI V G	ABSENT
29.	NISHA R	Nisha. R
30.	OVIYA S	S Oviya
31.	PACHIYAPPAN S	
32.	PANDEESHWARAN N	Pandeeshe
33.	REGHAN BOSE R	R Reghan Bose
34.	SAIRAJ M	
35.	SANGEETHRAJ B	
36.	SATHEESH KUMAR V	
37.	SHWETHA S	ABSENT
38.	SIVA SREE S	
39.	SIVARAJAN K	
40.	SOFIYA B	Sofiya. B
41.	SONAIMUTHU B	
42.	SRIMATHI B	
43.	SUNDAR RAM S	Sundar Ram
44.	TAMILNESAN R G	
45.	VYSREE MANOJ V P	
46.	KEERTHANA R	R. Keerthana
47.	ABHINAND.S	ABSENT
48.	ROSHITH.S	ABSENT
49.	ABDUSSAMAD O	
50.	ABINESH JOVITTER KASTON K	

51.	AJITHKUMAR A	
52.	AMAL DEV	
53.	AMBILI P C	
54.	ANBUMANI T	
55.	ARAVINTH KUMAR P	
56.	ARCHANA BENNY	
57.	ARSATH PARVEZ M	
58.	ASMA V	
59.	BALAJI A	
60.	BARATH SUKUMAR E	
61.	BASIL K V	
62.	BASKAR T	
63.	DEEPA S	
64.	DHANUSH M	
65.	DHILAK S	
66.	DINESH KARTHIK J	
67.	GUNASEKARAN D	
68.	HRITHIK T K	
69.	JAGADHEESH M	
70.	JAMAL AL JAZEER F	
71.	JANAPRIYA S	
72.	JEEVITHA S	
73.	JOHN NICKSHAN C	
74.	KALAIVANI G	
75.	KARTHICK C	
76.	KRISHNA MOORTHY A	
77.	LAKSHMAN G	
78.	MANIMALA N	
79.	MAYURA GURUBARAN S	
80.	MOHAMMED ASNAH	

81.	MOHAMMED YASAR K P	ABSENT
82.	MUHAMMED ANSHAB	
83.	NANDHITHA J	
84.	NAVEEN A	
85.	NEHAL KRISHNA V T	
86.	NELVIN JINS	
87.	NOOPU A D	
88.	PRATHAN P K	P.K. PRATHAN
89.	PREETHVI P	
90.	PREM KUMAR S	
91.	PRITHIVI RAJ P	
92.	RACHEL R	
93.	REVATHY P R	
94.	RISHIKESAN K	
95.	RUVETHASRI V	ABSENT
96.	SABARINATH M	M. Sabari
97.	SHAHZAD ROSHAN P K	ABSENT
98.	SHANMUGA RAJA G	
99.	SHANOOB SHAJAHAN	
100.	SHYAM MOHITH SUKUMARAN	
101.	SUFIYAN M K	
102.	SUHAIL P V	
103.	SUREKA M	
104.	SURYA P	Surya.P.
105.	SUSITHARAN S	
106.	THALAL MOHAMED S	ABSENT
107.	THIVAGAR K	
108.	UTHAYAVANAN N M	
109.	VASANTHKUMAR S	ABSENT
110.	YAZHINI S	

TOTAL PRESENTEES :- 98

TOTAL ABSENTEES :- 12

PROGRAM COORDINATOR : 6/1/24

D.R. NIVEDHA (AP/BME)

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Report for_Skill Development Program_____organized / ~~participated~~

Name of the Faculty :M.Deeparani	
Department :Biomedical Engineering	Designation :Assistant Professor
Name of the Event: **Skill Development Program: Emerging Opportunities in Biomedical Engineering and Plan to Equip Yourselves.**	
Level : College level	
Venue / Mode:Ganga Hall	
No. of Days :1	Dates : 28.03.2024
Funded by : Management	
No. of Participants :	Registration charges (if any) :Nil
Faculties: 6	
Students: 94	
Externals: Nil	
Name and Designation of Resource Person(s) : Dr.R.Chandrasekhar Menon,Global Institute of Healthcare Analytics,USA	
Objective: To identify emerging opportunities in biomedical engineering and develop a comprehensive plan to equip oneself to pursue those opportunities effectively.	
Outcome : Through self-assessment and exploration, participants will identify their personal interests, strengths, and areas of passion within biomedical engineering, enabling them to focus their efforts effectively.	
Remarks and Feedback on the Event: very valuable events,kindle and motivate the young minds regarding their future.	
Plan of Implementing in HiCET (if any) :-Nil	
M.D 3/4/24 Signature of the Faculty	HoD Principal

Category: IIC/MIC/ Self

Name of Student Coordinator:

Weather Event Brochure / Invitation Published in Social Media : Yes / No

If Yes, Mention Link details:

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Valley Campus, Pollachi Highways, Coimbatore,Tamilnadu.

SKILL DEVOLOPMENT PROGRAM

INSTITUTION'S INNOVATION COUNCIL

(IIC SELF DRIVEN ACTIVITY)

ORGANIZED BY

DEPARTMENT OF BIOMEDICAL ENGINEERING

TOPIC : EMERGING OPPORTUNITIES IN BIOMEDICAL ENGINEERING AND PLAN TO EQUIP YOURSELVES.

SPEAKER

DR. R. CHANDRASEKHAR MENON

Global institute of Healthcare Analytics

USA



DATE

28 MARCH , 2024

11:00 AM TO 1:00 PM

VENUE: GANGA HALL

Patrons

Dr.K.Karunakaran

CEO

Dr. J. Jaya

Principal

CONVENOR

Dr.S.Saravana Sundaram

Professor & Head

Department of Biomedical engineering

Coordinator

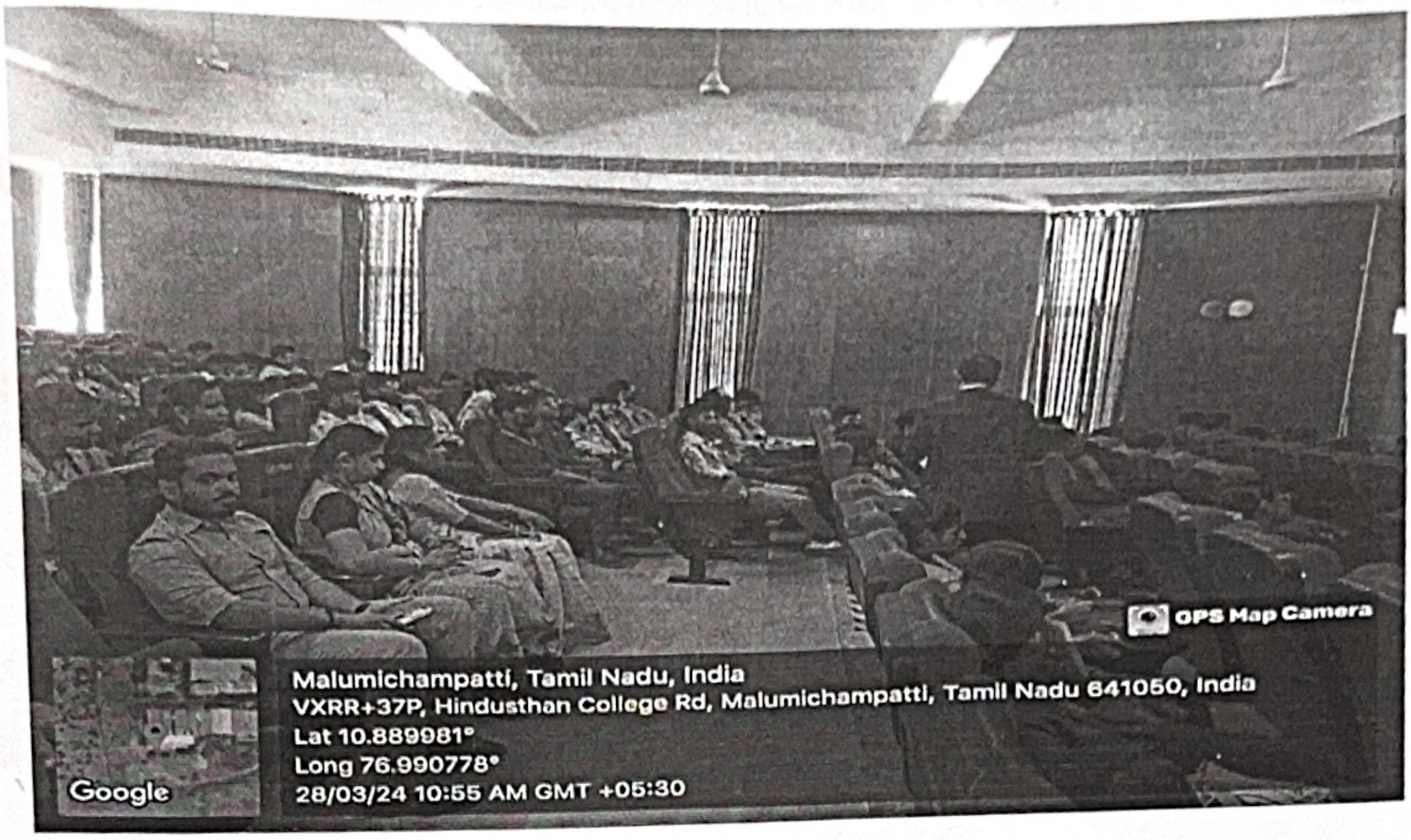
Mrs.Deeparani

Assistant Professor/BME

Co

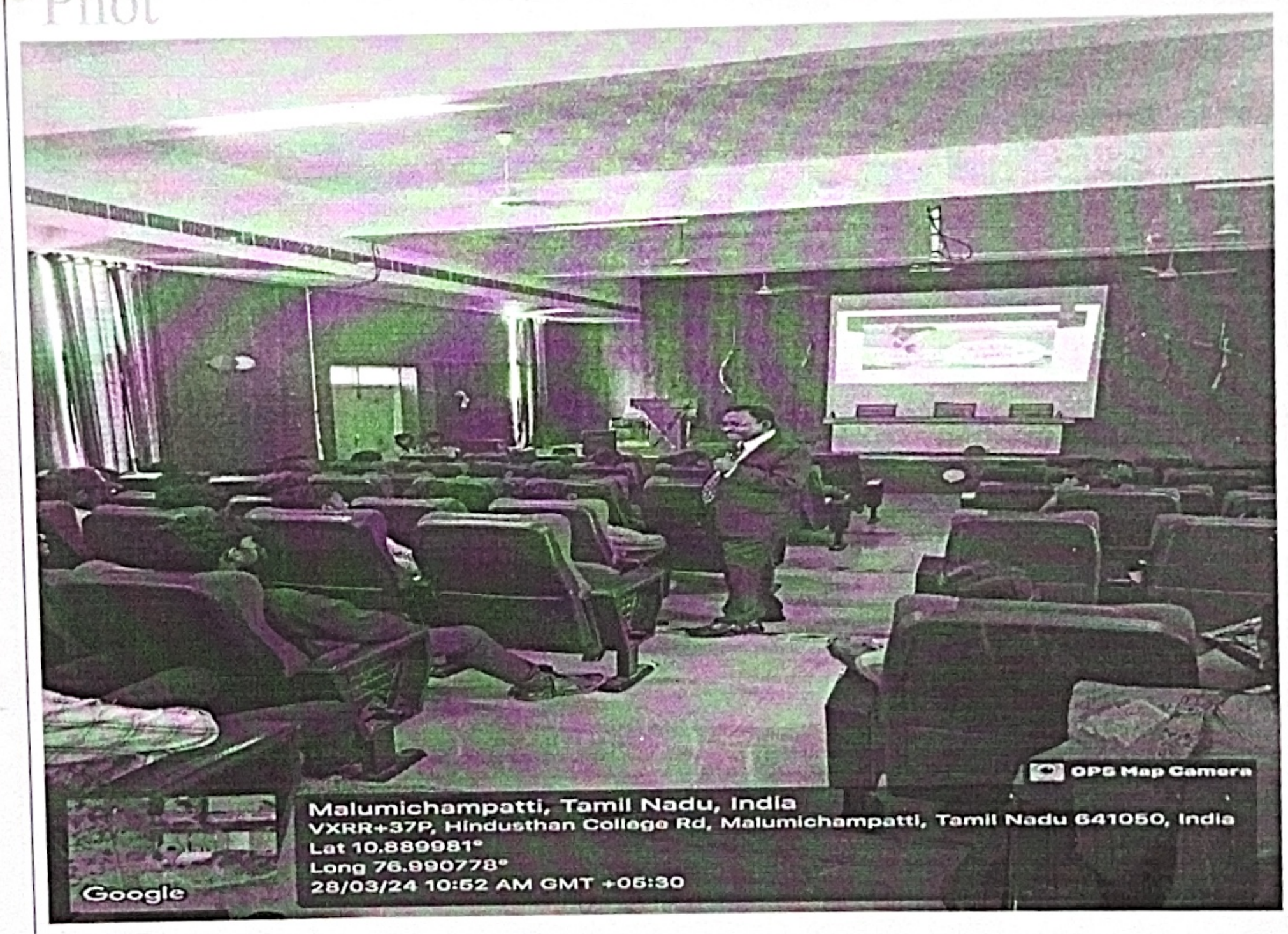
py of the Event Brochure / Invitation:

Geo Tagged Photographs of Event



Photographs: 1

`Phot



ographs:2

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Valley Campus, Pollachi Highways, Coimbatore,Tamilnadu.

HICET

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SKILL DEVOLOPMENT PROGRAM

INSTITUTION'S INNOVATION COUNCIL

(IIC SELF DRIVEN ACTIVITY)

TOPIC : ENTREPRENEURSHIP OPPORTUNITIES IN BIOMEDICAL ENGINEERING AND PLAN TO EQUIP YOURSELVES

Date : 28/03/2023

S.N	NAME	SIGNATURE
1	ABDUSSAMAD O	
2	ABINESH JOVITTER KASTON K	
3	AJITHKUMAR A	
4	AMAL DEV	
5	AMBILI P C	
6	ANBUMANI T	
7	ARAVINTH KUMAR P	
8	ARCHANA BENNY	
9	ARSATH PARVEZ M	
10	ASMA V	
11	BALAJI A	
12	BARATH SUKUMAR E	
13	BASIL K V	
14	BASKAR T	
15	DEEPA S	
16	DHANUSH M	
17	DHILAK S	
18	DINESH KARTHIK J	
19	GUNASEKARAN D	
20	HRITHIK T K	
21	JAGADHEESH M	
22	JAMAL AL JAZEER F	

S.N	NAME	SIGNATURE
23	JANAPRIYA S	AB
24	JEEVITHA S	
25	JOHN NICKSHAN C	AB
26	KALAIVANI G	
27	KARTHICK C	
28	KEERTHANA S	AB
29	KRISHNA MOORTHY A	AB
30	LAKSHMAN G	AB
31	MANIMALA N	N. Manimala
32	MAYURA GURUBARAN S	AB
33	MOHAMMED ASNAH	
34	MOHAMMED YASAR K P	AB
35	MUHAMMED ANSHAB	
36	NANDHITHA J	J.
37	NAVEEN A	A
38	NEHAL KRISHNA V T	AB
39	NELVIN JINS	
40	NOOPU A D	
41	PRATHAN P K	P.K. PRATHAN
42	PREETHVI P	AB
43	PREM KUMAR S	S. Prem Kumar.
44	PRITHIVI RAJ P	AB
45	RACHEL R	
46	REVATHY P R	
47	RISHIKESAN K	K. Rishikesan
48	RUVETHASRI V	
49	SABARINATH M	M. Sabarinath
50	SHAHZAD ROSHAN P K	AB
51	SHANMUGA RAJA G	

S.N	NAME	SIGNATURE
52	SHANOOB SHAJAHAN	
53	SHYAM MOHITH SUKUMARAN	
54	SUFIYAN M K	
55	SUHAIL P V	
56	SUREKA M	
57	SURYA P	
58	SUSITHARAN S	
59	THALAL MOHAMED S	
60	THIVAGAR K	
61	UTHAYAVANAN N M	
62	VASANTHKUMAR S	
63	YAZHINI S	

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Report for Professional Development Training for Non Teaching Staff organized

Name of the Faculty : Mrs.K.Kiruthika	
Department : Biomedical Engineering	Designation : Assistant Professor
Name of the Event: Hands on Training on Vital Parameter Monitoring	
Level : College Level	
Venue / Mode: E&I Smart Class Room	
No. of Days : 01	Dates : 25.04.2024
Funded by : Nil	
No. of Participants :	Registration charges (if any) : Nil
Faculties : 49	
Students : -	
Externals : -	

Name and Designation of Resource Person(s) :
Mrs.K.Kiruthika
Assistant Professor,
Department of Biomedical Engineering,
Hindusthan College of Engineering and Technology,
Coimbatore.

Objective: To give professional development training on vital parameter monitoring for Non Teaching Staff.

Outcome :
Non Teaching Staff were trained to monitor Blood Pressure, Blood Glucose Level, SPo2, ECG and Heart Rate also provides suggestion to improve their health condition.

Remarks and Feedback on the Event:
The professional development training went on well and gets good comments from the Non Teaching Staff.

Plan of Implementing in HiCET (if any) : Similar Programmes will be organised to provide hands on professional training to non teaching staff members.

Signature of the Faculty | HoD | Principal

Category: IIC/MIC/ Self: Self

Name of Student Coordinator: Nil

Weather Event Brochure / Invitation Published in Social Media : yes

If Yes, Mention Link details: Whatsapp

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DEPARTMENT OF BIOMEDICAL ENGINEERING

Organizes

PROFESSIONAL DEVELOPMENT TRAINING FOR NON TEACHING STAFF

TOPIC: HANDS ON TRAINING ON VITAL PARAMETER MONITORING

25 APRIL 2024

TIME AT 10:00 A.M

E&I SMART CLASSROOM

COORDINATOR
MS.K.KIRUTHIKA,AP/BME

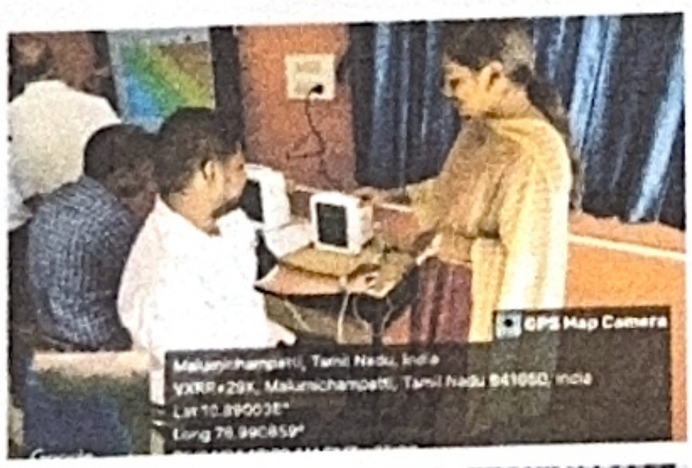
CONVENER
DR.S.SARAVANASUNDARAM
HOD/BME

PRINCIPAL
DR.J.JAYA

CEO
DR.K.KARUNAKARAN

Geo Tagged Photographs of Event













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DEPARTMENT OF BIOMEDICAL ENGINEERING

Professional Development Training for Non Teaching Staff

Topic: Hands on Training on Vital Parameter Monitoring

Date: 25.04.2024 **Time:10.00 am onwards**

Attendance Sheet

SI.NO	Name of the Staff	Department	Signature
1	J. M. Buvaneshwer	Automobile	
2	G. A. Murugan	AERO	
3	K. Gowthamy	E I E	
4	R. Mohanasundaram	MECH	
5.	Ms Maheswari. C	E C E	
6.	S. VARADARAJAN	CSE	
7.	M. VIJAYAKUMAR	CIVIL	
8	N. Thillainayaki	D T	
9.	P. Jenish Bharthi	Administration	
10.	S. Chitra	COE	
11.	M. Vanithamani	Office	
12.	K. ARAVINDHAN.	Mechatronics.	
13.	A. Sundar Swamy	EEE	
14	S. MARIMUTHU	IT	
15.	D. ASWINI	CHE	
16.	M. Geethanjali	Civil	
17.	S. ARUNKumar	MCT	
18.	C RAGUPATHY	~~Office~~	
19	M. Jeeva	food	

SI.NO	Name of the Staff	Department	Signature
20.	P. SIVA VIGNESH	F.T/L.T	
21.	S. Sivaranjani	BME	
22.	G. Nandhakumar	BME	
23.	M. Nandhini Devi	AGRI	
24.	S. Mohamed Abdulla	AGRI	
25	N. Nagaraj	civil	
26	A. GANESHAN	CSC	
27	R. Lakshmanan	CSE	
28	H Mohd Ali Jinn	CSE	
29	D. PREM KUMAR	MCT	
30	Juday Samy	Civil	
31	T. seethalakshmi	Main incharge	
32	R. Krishnan	Aero	
33	S Deepa	Chemical	
34	Jesurajan	Mech	
35.	Sivakumar	mech	
36	Manikandan	Mech	
37	Rajendran	MECH	
38.	Senthilkumar	mech	
39.	P. Mani	CMD	
40.	Abinaya	Auto	
41.	Murugesamy	ECE	
42.	S. Ambigha	ECE	
43.	Ashok Kumar	MCA	
44.	Thiyagarajan	S&H	
45.	Mani Kandan	ECE	
46	Thooyavan. C.	COE	
47.	Sumathy. M.	COE	

Sl.NO	Name of the Staff	Department	Signature
48	ARUNKUMAR N	CBE OFFICE	
49.	R. Thangamariamma	COE - Office	R. Thangam

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DEPARTMENT OF BIOMEDICAL ENGINEERING

Professional Development Training for Non Teaching Staff
Topic: Hands on Training on Vital Parameter Monitoring

Date: 25.04.2024 **Time:10.00 am onwards**

FEEDBACK FORM

Participant Information						
Name	D. ASWINI					
Branch	CHEMICAL					
Evaluation						
Scale: 1- Very Good; 2-Good; 3-Fair; 4-Poor; 5-Very Poor						
	1	**2**	**3**	**4**	**5**	**Comments**
1. The organization of program	☑	☐	☐	☐	☐	Very good
2. The speakers response to queries	☑	☐	☐	☐	☐	Very good
3. Overall, the program was informative, valuable and helpful.	☑	☐	☐	☐	☐	very good

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DEPARTMENT OF BIOMEDICAL ENGINEERING

Professional Development Training for Non Teaching Staff
Topic: Hands on Training on Vital Parameter Monitoring

Date: 25.04.2024 **Time:10.00 am onwards**

FEEDBACK FORM

Participant Information						
Name	P.SIGA VIGNESH					
Branch	F.T					
Evaluation						
Scale: 1- Very Good; 2-Good; 3-Fair; 4-Poor; 5-Very Poor						
	1	**2**	**3**	**4**	**5**	**Comments**
1. The organization of program	☑	☐	☐	☐	☐	very good
2. The speakers response to queries	☑	☐	☐	☐	☐	very good
3. Overall, the program was informative, valuable and helpful.	☑	☐	☐	☐	☐	very good.

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Report for A Technical Webinar on "Recent Trends in Healthcare Innovation and the role of Academia"

Name of the Faculty : Ms.Patricia Nancy S	
Department : Biomedical Engineering	Designation : Assistant Professor
Name of the Event: A Technical Webinar on "Recent Trends in Healthcare Innovation and the role of Academia"	
Level : International / National / **State** / Regional / Industry / University / College Level	
Venue / Mode: Online Mode / Google meet	
No. of Days : 1	Dates : 23.04.2024
Funded by : UGC/CSIR/DST /DSIR/TNSCST /ICSSR /NCERT /INSA/ Management/ **IEI-Coimbatore local center**	
No. of Participants : 138 students and 9 faculties	Registration charges (if any) : Nil
Name and Designation of Resource Person(s) : Dr.Vivek Manoharan,Founder & CEO -221B Biomedical & Test at Home, Co-founder-Bipolar Factory,India & Singapore	
Objective: This webinar is organised in order to enlighten the students with the recent treands and innovations currently happening in the field of healthcare.	
Outcome: The students as well as the faculties were able to gain insights about the recent innovations and gain few project ideas from the webinar.	
Remarks and Feedback on the Event: Students were interactive and showed great interest in gaining knowledge about the recent technologies.	
Plan of Implementing in HiCET (if any) : Nil	

Signature of the Faculty HoD Principal

Whether Event Brochure / Invitation Published in Social Media : **Yes** / No

If Yes, Mention Link details:

The Institution of Engineers (India)

Coimbatore Local Centre

in association with

Department of Biomedical Engineering

Hindusthan College of Engineering and Technology, Coimbatore

organizes

A Technical Webinar on

"Recent Trends in Healthcare Innovation and the Role of Academia"



by

Dr VIVEK MANOHARAN

Founder & CEO - 221B Biomedical & Test at Home

Co-Founder, Bipolar Factory

India & Singapore

on 23rd April 2024 (Tuesday), 10.00 AM

https://meet.google.com/utg-roxw-jcz

All are Cordially Invited !

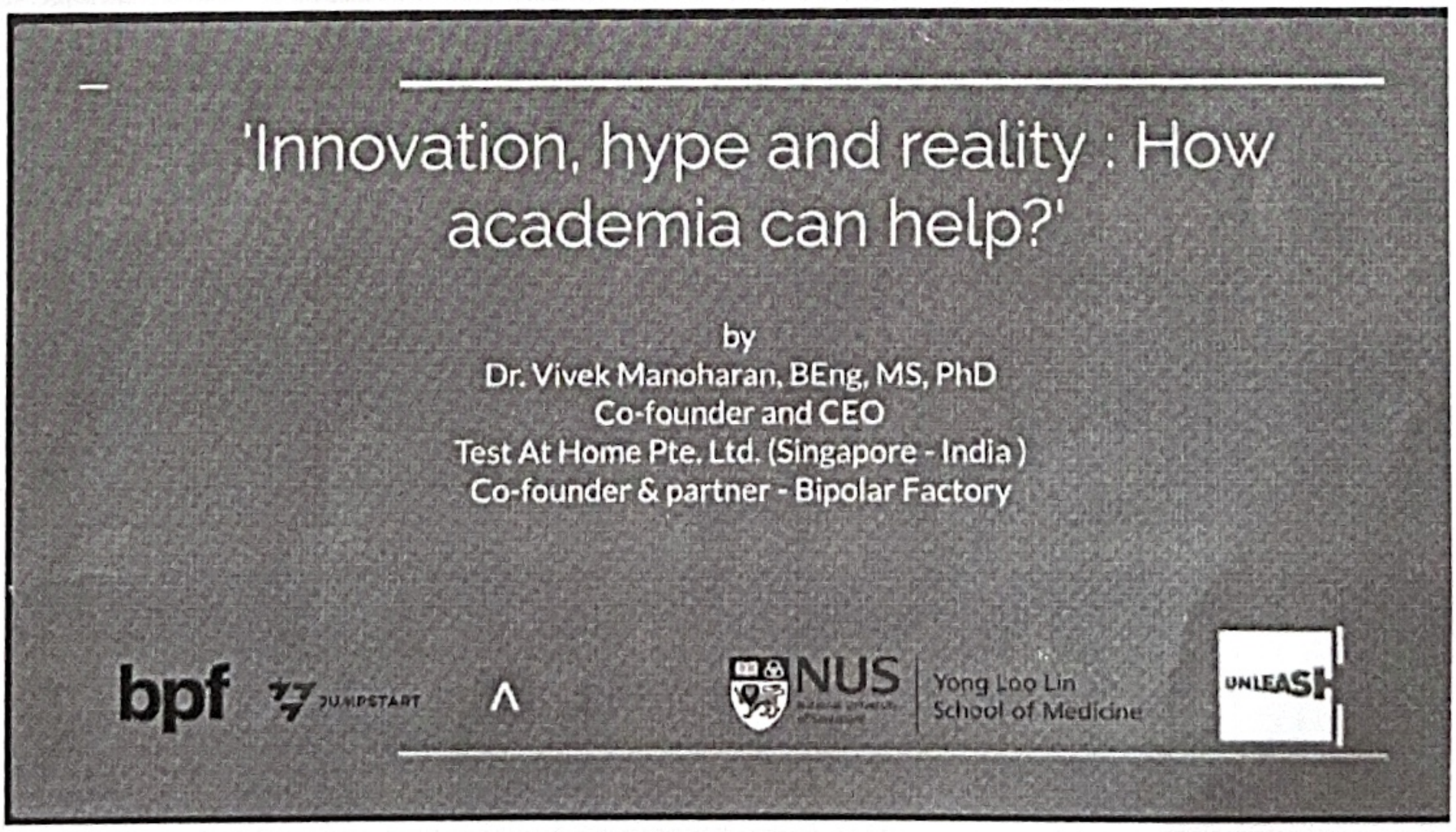
Dr J Krishnamoorthi FIE
Chairman

Dr G Madhan Mohan FIE
Honorary Secretary

Photographs of Event




Vivek Manoharan (Presenting)
NASA's Technology Readiness level (TRL)


'Innovation, hype and reality : How academia can help?'
by
Dr. Vivek Manoharan, BEng, MS, PhD
Co-founder and CEO
Test At Home Pte. Ltd. (Singapore - India)
Co-founder & partner - Bipolar Factory
bpf
JUMPSTART
NUS
Yong Loo Lin School of Medicine
UNLEASH

News

UNLEASH talent creates 'lollipop-like' Covid-19 testing device

SEPTEMBER 13TH, 2021

UNLEASH Talent, Dr Vivek Manoharan, and his Singapore-Indian startup, Tear Bi Make Pvt Ltd (TBM), have developed a Covid-19 testing device with 95% of accuracy.

While the Covid-19 outbreak in India reaches more than 33M cases and 1L deaths, easy-access and low-resistance testing methods are increasingly needed. However, the rising demand for testing methods especially for deep nasopharyngeal swabs has created a supply-chain collapse. This is putting healthcare workers at risk, as some collection processes involve processing saliva by splitting a collection method with a strong risk of creating aerosol transmission.

Vivek and Tear Bi Make (TBM) have created a unique 'lollipop' like swab that collects saliva from users by chewing it. Its unique features not only make the process safe for any age group to self-collect oral fluid samples, but also reduce the production of aerosols during the collection process, thus reducing the risk of transmission.

A 'lollipop' to replace painful nasal swab test

The chewable, buckle cavity swab device shows an accuracy of 95%



HP wants priority for healthcare workers.

Three getting nervous about taking that painful and painful nasal swab test for Covid-19 can foresee a sigh of relief as the sample collection is set to become a child's play.

A medical technology start-up - Tear Bi Make - has replaced the deep nasopharyngeal (NP) swabs with saliva for sample collection, practically replacing a cotton bud with a lollipop.

95% accuracy

The recently completed clinical study on its lollipop device that enables individuals to self-collect saliva samples for Covid. The proprietary chewable buckle cavity swab device has shown around 95 per cent accuracy based on initial clinical data, Vivek Manoharan, one of the founders of the company, told BusinessLine.

The company aims to start trials on children in September.

Tests in the NP swabs are considered gold standard for swab-based detection, a point call in the healthcare workers involved in sample collection.

Also, the nasal swabbing is painful and uncomfortable, even for the well-acclimatised with breathing-based testing solutions, and also makes it difficult for young kids and other specific patient groups.

"Saliva testing is preferable. This device not only helps minimise discomfort and fear thrown over the ab. the importance o thoughtfully designed re produce very minimal re no aerosols during the col bodies pressure-cooker spit saliva collection," said Manoharan.

The collected samples can then be sent for vari ous tests, including RT-PCR, rapid antigen tests and even ELISA.

Clinical trials

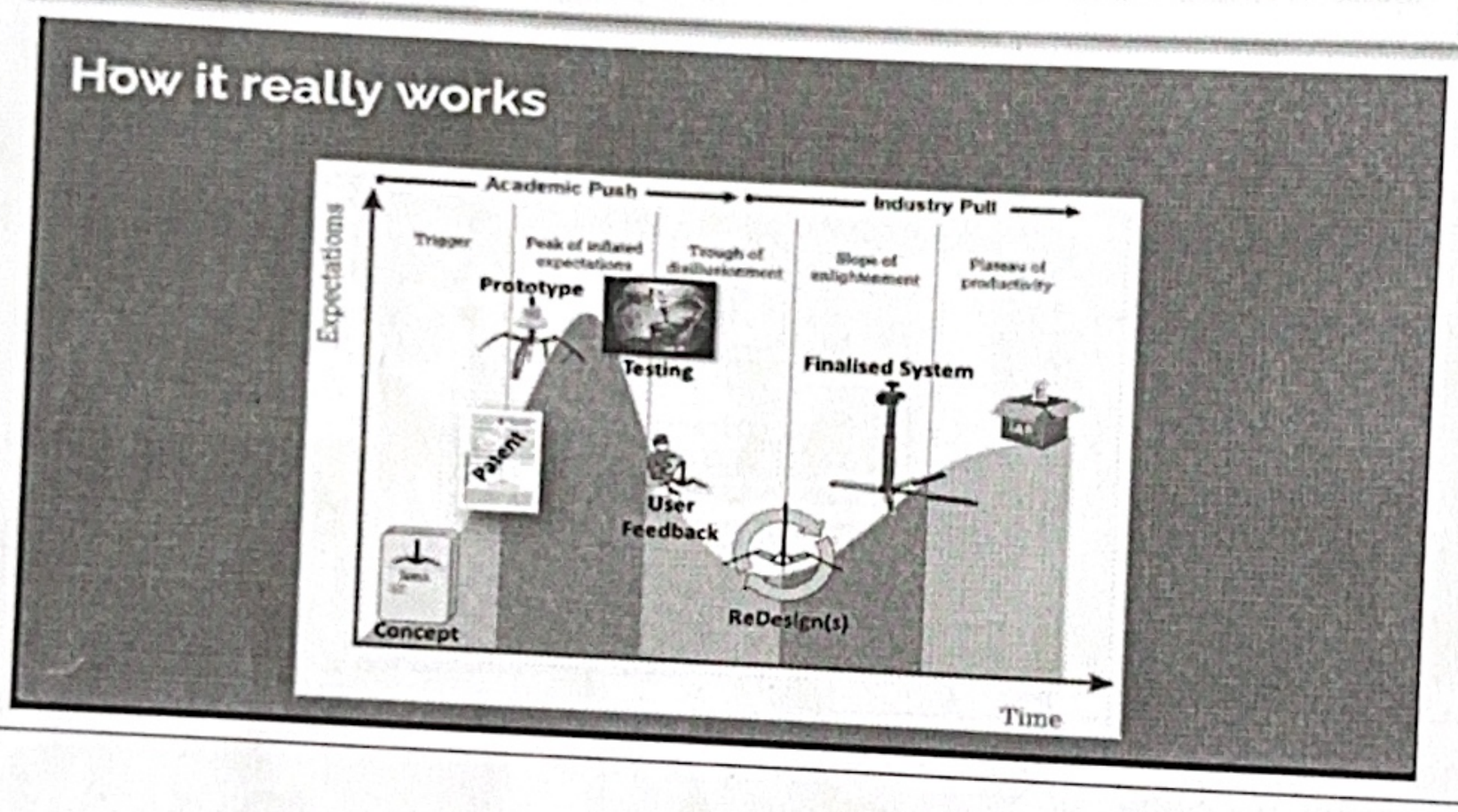
The company registered in Singapore and India during 2020, successfully conducted clinical trials on 150 subjects at Vivek between April and June.

"We also found that eight samples that were missed by nasal swab were reported positive through saliva. This is an initial technology and this is our first product. We are awaiting the regulator's nod for commercial release," said Manoharan.

Production

The productions will happen in India through third-party manufacturing, and the cost is envisioned to be less than a dollar for a lollipop, which will have a citric acid flavour to enable more saliva secretion.

The company is currently manufacturing 10,000 samples for the government and non-government health agencies as a trial run.



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DEPARTMENT OF BIOMEDICAL ENGINEERING

STUDENT NAME LIST

Sl No.	Register No	Name of the student	Signature
1.	720721112001	ABISHEK N	
2.	720721112002	ADITHYA S	
3.	720721112003	AKHILA ANWAR	
4.	720721112004	AKSHAY KRISHNA	
5.	720721112005	ALTHAF SHERIFF A	
6.	720721112006	ANANDHARAJ T	
7.	720721112007	ANNAMALAI A	
8.	720721112012	BHUVANESHWARAN B	
9.	720721112013	GOKUL RADHA KRISHNAN	
10.	720721112014	HARINE K R	
11.	720721112015	HARINI C	
12.	720721112016	JANANI S	
13.	720721112017	JAYAKUMAR V	
14.	720721112018	JAYAPRIYA R	
15.	720721112019	LIBI ACHENKUNJU	
16.	720721112020	LOGESH M	
17.	720721112021	MAHADEVAN M	
18.	720721112025	MUHAMMED NAFIH MASHAL	
19.	720721112026	MUHAMMED NIHAL MADATHUMMAL	
20.	720721112027	MUHAMMED NIYAS.C H	
21.	720721112028	NAMO SRI V G	
22.	720721112029	NISHA R	

23.	720721112030	OVIYA S	
24.	720721112031	PACHIYAPPAN S	
25.	720721112032	PANDEESHWARAN N	
26.	720721112033	REGHAN BOSE R	
27.	720721112034	SAIRAJ M	
28.	720721112035	SANGEETHRAJ B	
29.	720721112036	SATHEESH KUMAR V	
30.	720721112037	SHWETHA S	
31.	720721112038	SIVA SREE S	
32.	720721112039	SIVARAJAN K	
33.	720721112040	SOFIYA B	
34.	720721112041	SONAIMUTHU B	
35.	720721112042	SRIMATHI B	
36.	720721112043	SUNDAR RAM S	
37.	720721112044	TAMILNESAN R G	
38.	720721112045	VYSREE MANOJ V P	
39.	720721112046	KEERTHANA R	
40.	720722112002	ABINESH JOVITTER KASTON K	
41.	720722112003	AJITHKUMAR A	
42.	720722112004	AMAL DEV	
43.	720722112005	AMBILI P C	
44.	720722112006	ANBUMANI T	
45.	720722112007	ARAVINTH KUMAR P	
46.	720722112008	ARCHANA BENNY	
47.	720722112009	ARSATH PARVEZ M	
48.	720722112010	ASMA V	
49.	720722112011	BALAJI A	
50.	720722112012	BARATH SUKUMAR E	
51.	720722112013	BASIL K V	
52.	720722112014	BASKAR T	
53.	720722112015	DEEPA S	

54.	720722112016	DHANUSH M	
55.	720722112023	JANAPRIYA S	
56.	720722112024	JEEVITHA S	
57.	720722112025	JOHN NICKSHAN C	
58.	720722112026	KALAIVANI G	
59.	720722112027	KARTHICK C	
60.	720722112029	KRISHNA MOORTHY A	
61.	720722112030	LAKSHMAN G	
62.	720722112031	MANIMALA N	
63.	720722112032	MAYURA GURUBARAN S	
64.	720722112033	MOHAMMED ASNAH	
65.	720722112034	MOHAMMED YASAR K P	
66.	720722112035	MUHAMMED ANSHAB	
67.	720722112036	NANDHITHA J	
68.	720722112037	NAVEEN A	
69.	720722112038	NEHAL KRISHNA V T	
70.	720722112039	NELVIN JINS	
71.	720722112040	NOOPU A D.	
72.	720722112041	PRATHAN P K	
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74.	720722112045	RACHEL R	
75.	720722112046	REVATHY P R	
76.	720722112047	RISHIKESAN K	
77.	720722112048	RUVETHASRI V	
78.	720722112049	SABARINATH M	
79.	720722112050	SHAHZAD ROSHAN P K	
80.	720722112051	SHANMUGA RAJA G	
81.	720722112052	SHANOOB SHAJAHAN	
82.	720722112053	SHYAM MOHITH SUKUMARAN	
83.	720722112054	SUFIYAN M K	
84.	720722112055	SUHAIL P V	
85.	720722112056	SUREKA M	
86.	720722112057	SURYA P	
87.	720722112058	SUSITHARAN S	

88.	20112001	ABDUL RAHMAN A	
89.	20112002	ADAIKKALARAJ P	
90.	20112003	AHAMED NASITH A	
91.	20112004	AJEETHKUMAR V	
92.	20112005	AMAL S	
93.	20112006	AMALRAJ M	
94.	20112007	ARIHARASUDHAN K	
95.	20112008	AVANTHIKA C M	
96.	20112009	BAVITHRA M	
97.	20112010	BHARAT M	
98.	20112011	DHEEPARATCHAGAN G	
99.	20112012	FAHIM K M	
100.	20112013	GINOLENE PACKIA SHINIFFA P	
101.	20112014	GOPINATH R	
102.	20112016	JASHIKA K	
103.	20112017	JAYA KUMAR S	
104.	20112018	JEEVAN POOVATHINGAL	
105.	20112019	KISHOR A B	
106.	20112020	KISHORE R	
107.	20112021	V M LADEEDA SHAHSADI	
108.	20112022	MADHANRAJAN R	
109.	20112023	MIDHUN JACOB	
110.	20112024	MOHAMED IMRANKHAN J	
111.	20112025	MOKESH S	
112.	20112026	MONICA DEEPTHI S	
113.	20112027	MUHAMMED ABUTHAHIR K	
114.	20112028	MUHAMMAD SAHAL P P	
115.	20112029	MUHAMMED SHAFREED K A	
116.	20112030	NANDU HARIKUMAR	
117.	20112031	PRIYADHARSHINI S	
118.	20112032	RESHIKESH G	
119.	20112033	REYANA SREE K M	
120.	20112034	SAMUEL SABU	
121.	20112035	SARAN KARTHICK S	

122.	20112036	SARMILA R	
123.	20112037	SATHYA T	
124.	20112038	SHANOFER J	
125.	20112039	SIDARTH S	
126.	20112040	SMINJU ELZA SAJI	
127.	20112042	SONALI S V	
128.	20112043	SOWMYA R	
129.	20112045	SRIRAM G	
130.	20112046	STEVEGLADWIN W	
131.	20112047	SUSHMITHA M	
132.	20112048	THEJAN R	
133.	20112049	VARSHINI T	
134.	20112050	VIGNESHWARAN A	
135.	20112052	VISHVA V	
136.	20112801	DHANISH D	
137.	20112802	PARVATHY S	
138.	20112803	VIJAYARAJ M	

~~Class Advisor~~ ~~HOD~~

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Report for

Conference/Seminar/Symposium / Workshop/FDP/Refresher Course/Training / Industry Visit / Academic Visit / Guest Lecture / Webinar / Online Course

Organized / ~~Participated~~

Name of the Faculty : Mrs. M NIRMALA	
Department : MCA	Designation Assistant Professor
Nature of the Event: **Webinar**	
Category: College Level	
Title : **Comprehensive Demonstration and Analysis of a Real World Case Study in Predictive Modeling for Health care Systems**	
Venue : Hindusthan College of Engineering & Technology – Virtual Mode Meet Link : https://meet.google.com/gpb-vbgs-dcf Feedback Link : https://forms.gle/EAFU148ssPMAZVKw5	
No. of Days : 2 ½ hours	Dates : 20.05.2024
Funded by : NIL	
No. of Participants : 60+	Registration charges (if any) : NIL

Name and Designation of Resource Person(s) :
HARIHARASUDHAN D,
Microsoft Trainer ,
Certiport – TN,
Associate Data Scientist,
Bangalore

Outcomes of the Event :

- Gained a comprehensive understanding of predictive modeling techniques, specifically tailored to healthcare systems.
- Through the real-world case study presented, attendees learned about the practical challenges and solutions in implementing predictive models in healthcare settings.
- It bridges the gap between theoretical knowledge and real-world application.
- contributed to the skill enhancement of our students and faculty members
- By hosting such seminars, our institution continues to uphold its commitment to academic excellence and professional development.

Remarks and Feedback on the Event:

- Provided high-quality, relevant, and up-to-date content on predictive modeling in healthcare systems.
- Mr. Hariharasudhan D. was praised for his excellent presentation skills.
- The real-world case study presented was particularly valued by attendees.
- "The organization of the event was top-notch. Everything ran smoothly, and the interactive session was particularly beneficia.
- "I gained a lot of practical knowledge about predictive modeling in healthcare. The case study approach was very helpful in understanding the real-world applications."

Overall Feedback given was **EXCELLENT**

Plan of Implementing in HiCET (if any) : NIL

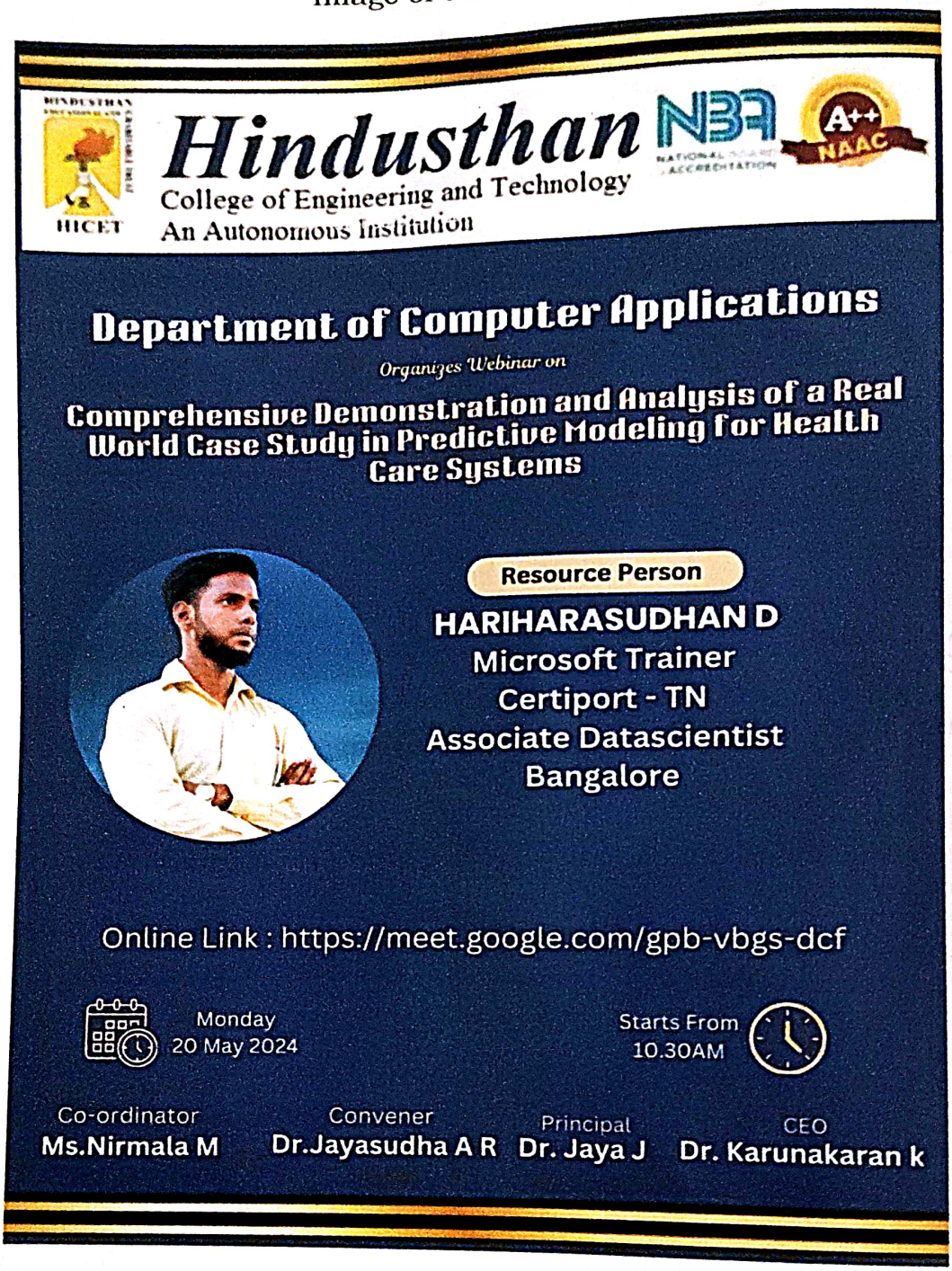
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Signature of the Faculty

HoD

Principal

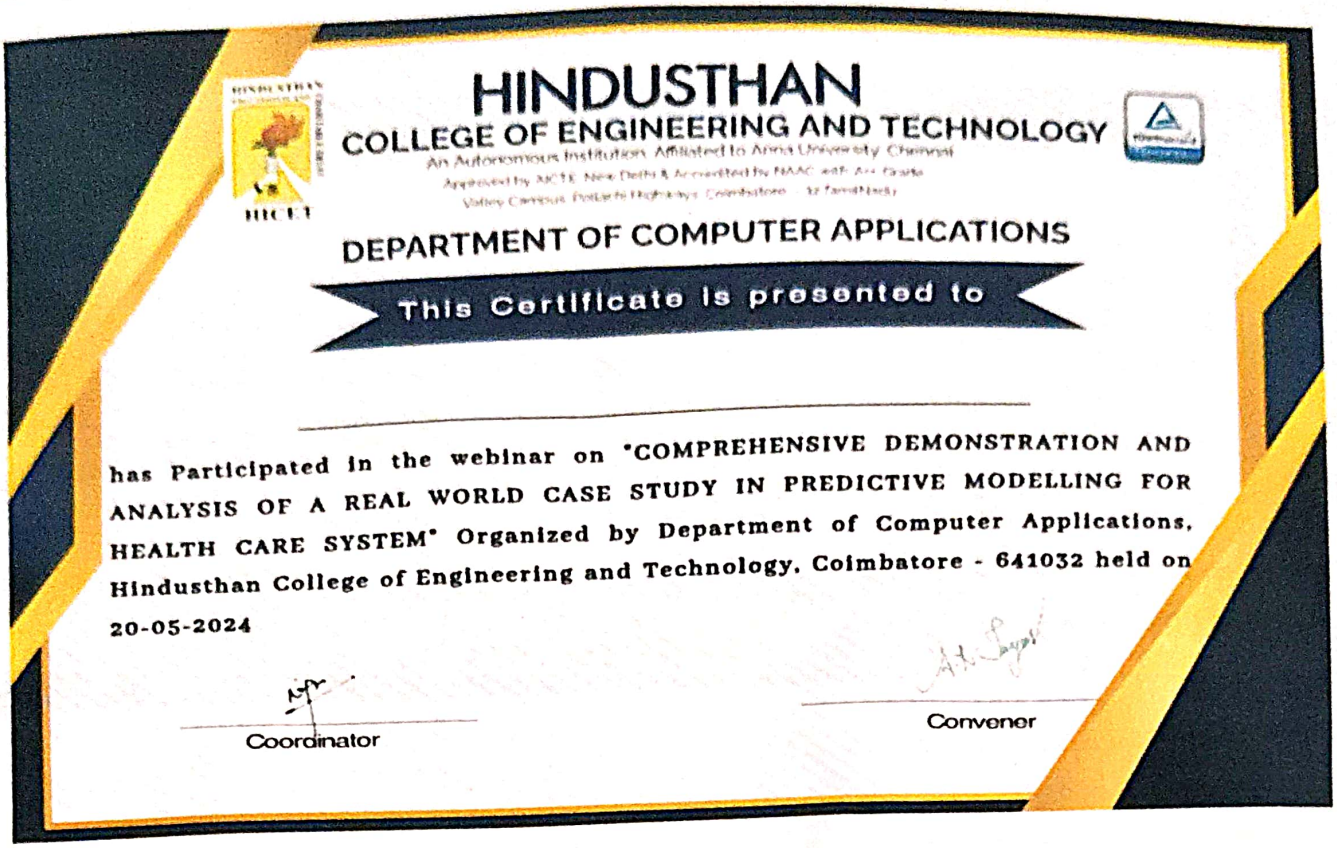
Image of the Invitation



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Image of the Event: Certificate



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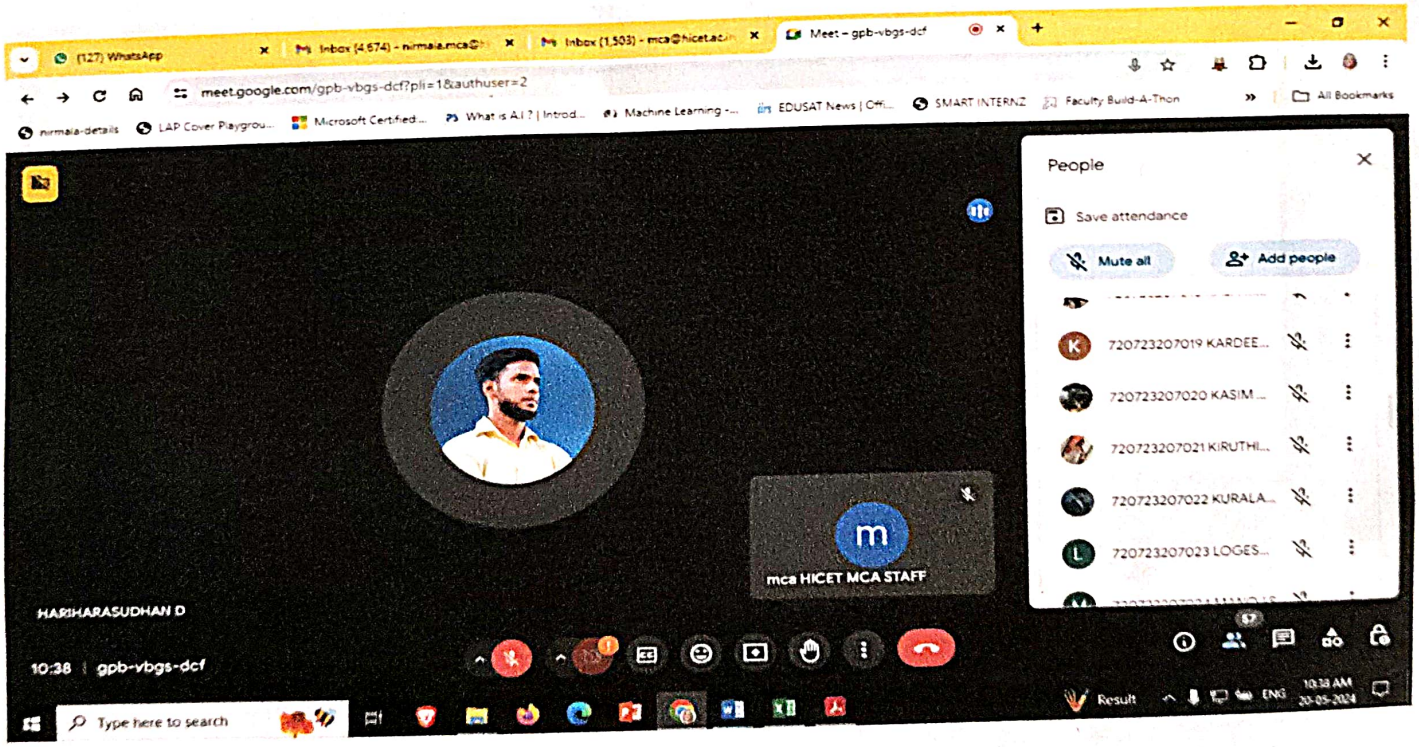
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This Certificate is presented to

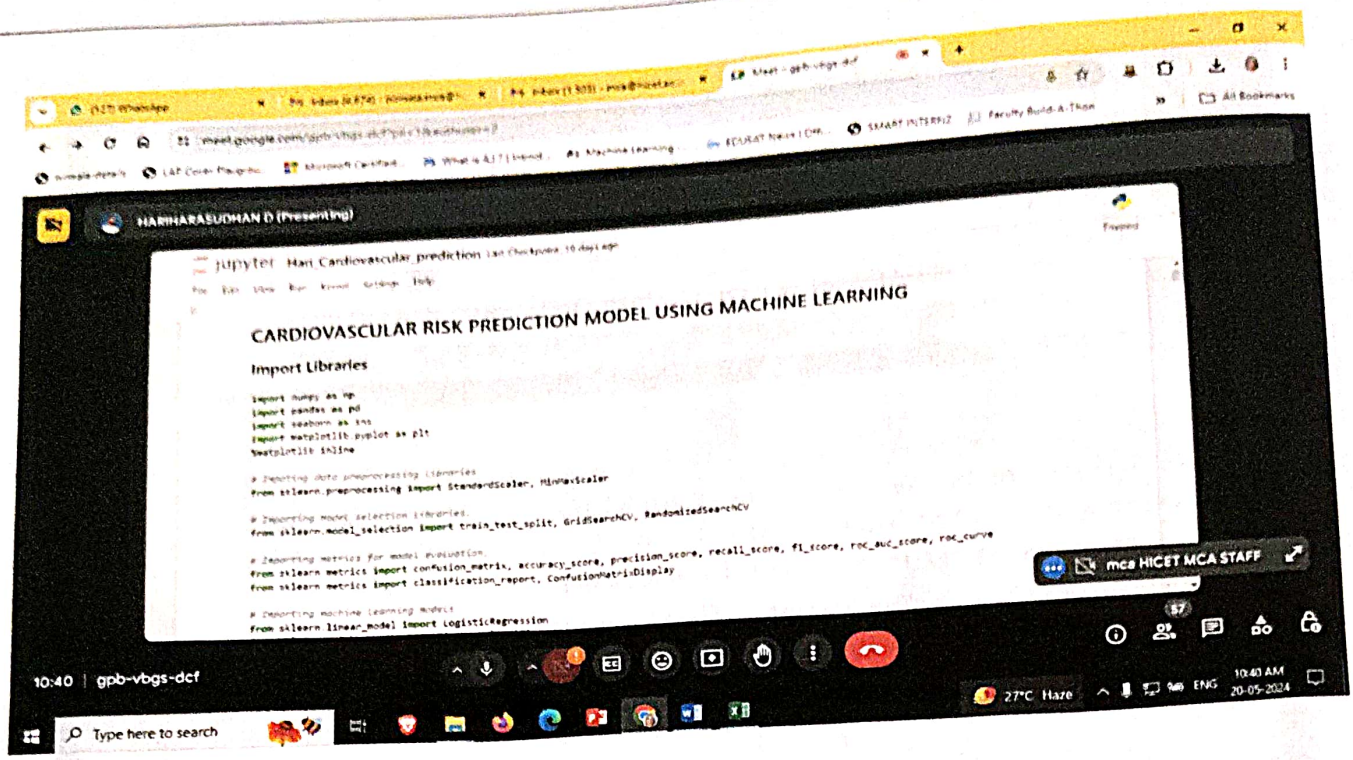
has Participated in the webinar on "COMPREHENSIVE DEMONSTRATION AND ANALYSIS OF A REAL WORLD CASE STUDY IN PREDICTIVE MODELLING FOR HEALTH CARE SYSTEM" Organized by Department of Computer Applications, Hindusthan College of Engineering and Technology, Coimbatore - 641032 held on 20-05-2024

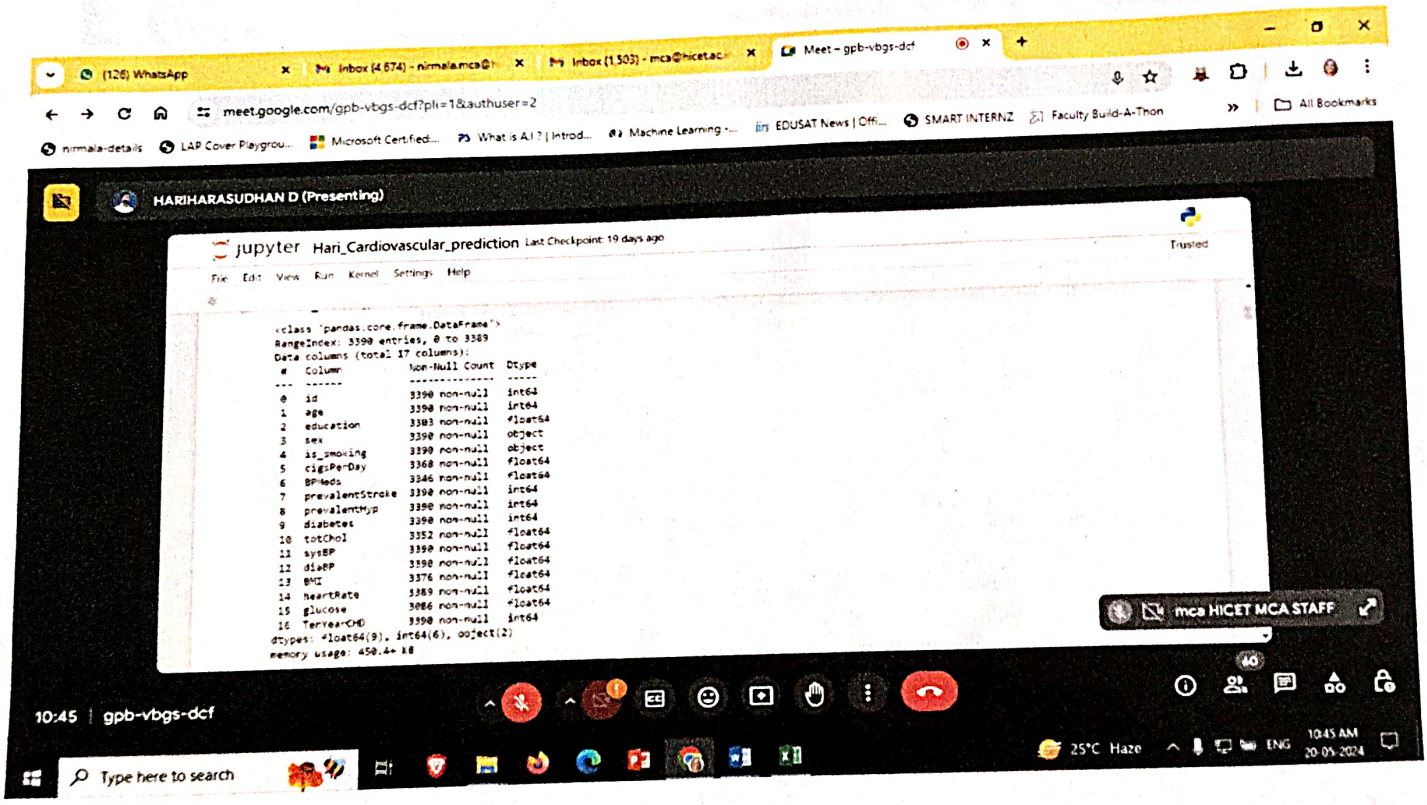
Coordinator

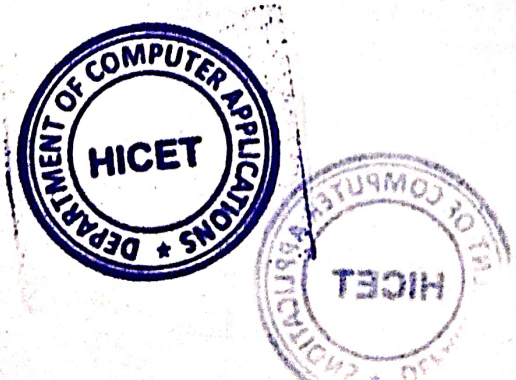
Convener

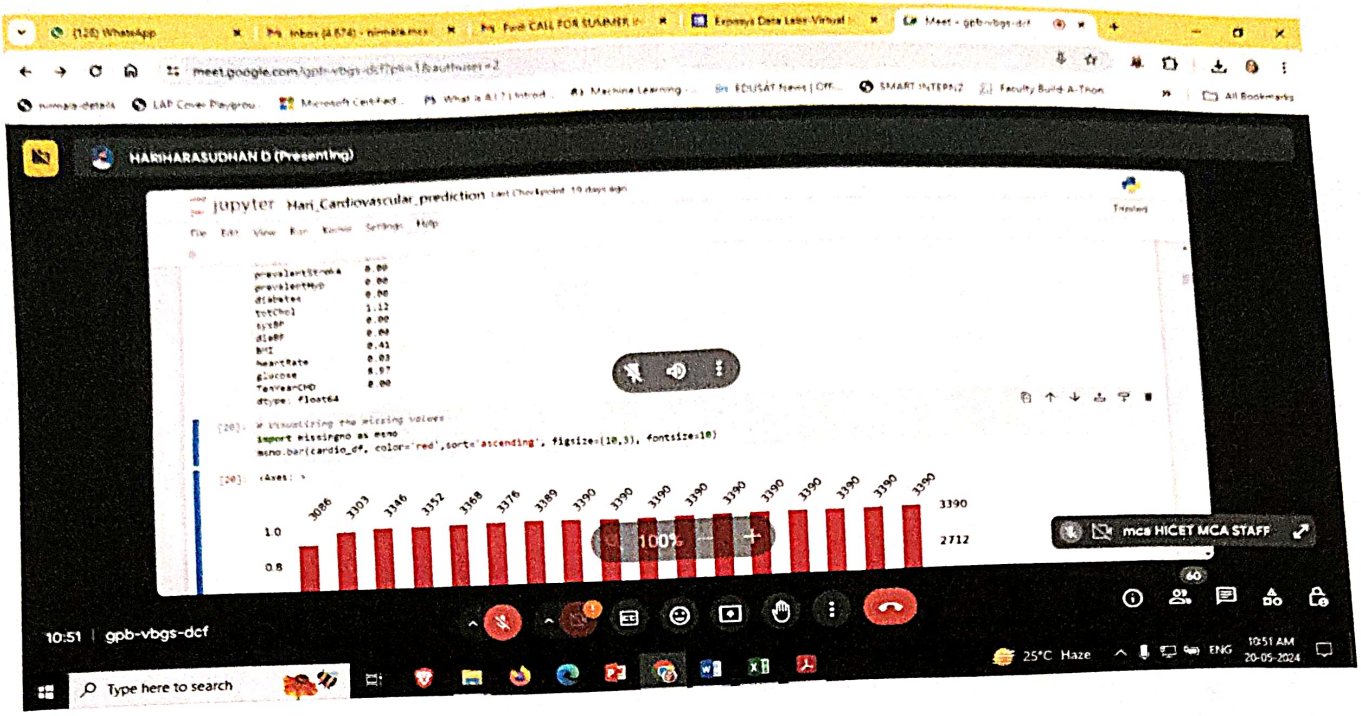


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HARIHARASUDHAN D (Presenting)
jupyter Hari_Cardiovascular_prediction
CARDIOVASCULAR RISK PREDICTION MODEL USING MACHINE LEARNING
Import Libraries
mca HICET MCA STAFF
10:40 | gpb-vbgs-dcf
Type here to search

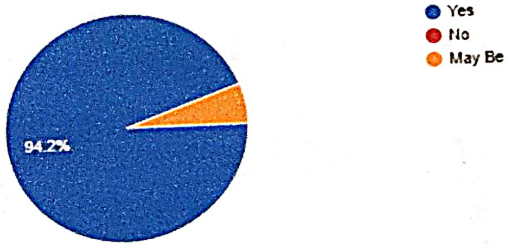

meet.google.com/gpb-vbgs-dcf?pli=1&authuser=2
HARIHARASUDHAN D (Presenting)
jupyter Hari_Cardiovascular_prediction Last Checkpoint: 19 days ago
mca HICET MCA STAFF
10:45 | gpb-vbgs-dcf
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HICET



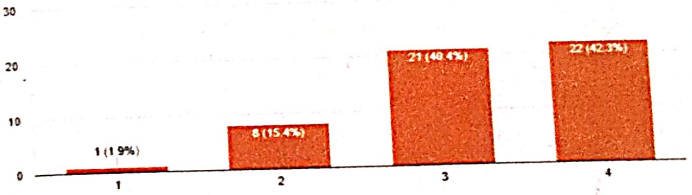
Did the speaker give a clear information about the Health care systems?

52 responses



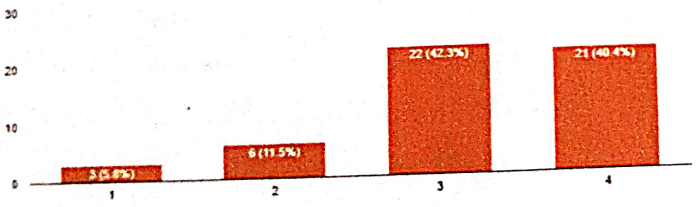
Did the speaker's talk help you with new learning or knowledge? 1 - Min & 4 - Max

52 responses



Rate the clarity of the session 1 - Min & 4 -Max

52 responses



Give the outcome of the speaker's talk with respect to your point of View

52 responses

The class was interactive and worth the time

it's good.

He gave a clear information about the health care system and it is very useful for me and I learned alot from this session

Health care system is great usefull system for patients.

Gain more Information

Valuable information

I learn something New

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Valley Campus, Pollachi Highways, Coimbatore

Seminar on "Soft Skills for Professional Effectiveness"

Name of the Faculty : Dr.A.R.Jayasudha	
Department : MCA	Designation Professor & Head
Nature of the Event: **SEMINAR**/FDP/Refresher Course/Training / Industry Visit / Guest Lecture	
Category: College Level International / National / State / Regional / Industry / University / College Level	
Title : **Soft skills for Professional Effectiveness**	
Venue : Mullai Hall, Hindusthan College of Engineering & Technology	
No. of Days :1/2	Dates : 29.08.2023
Fundedby : NILUGC/CSIR/DST /DSIR/TNSCST /ICSSR /NCERT /INSA/….	
No. of Participants :20	Registration charges (if any) : NIL

Name and Designation of Resource Person(s) :
Dr. A R Jayasudha
Professor & Head - MCA
Hindusthan College of Engineering and Technology, Coimbatore
Tamilnadu

Outcomes of the Event :

- Building their skills in Communication
- Effective use of English
- Improves self Confidence and Adaptability
- Good Rapport among the co-staffs
- Job Satisfaction

Remarks and Feedback on the Event:

- Overall Session was Nice
- Highly Interactive
- Very useful seminar and awesome speech
- Knowledge gained from the speaker

Overall Feedback given was **EXCELLENT**

Plan of Implementing in HiCET (if any) : NIL

HoD Principal







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Valley Campus, Coimbatore 641 032.
www.hicet.ac.in

Report for "FDP on Entrepreneurship & Innovation-Phase I" organized

Name of the Faculty : Dr .M.Bhuvaneswari	
Department : MBA	Designation : Professor
Name of the Event : FDP on Entrepreneurship & Innovation-Phase I	
Level : College Level	
Mode : Offline Venue : MBA Lab	
No. of Days : 1 day	Dates : 24.10.2023
Funded by : -	
No. of Participants : 10	Registration charges (if any) : Nil
Name and Designation of Resource Person : Dr .M.Bhuvaneswari, Professor, MBA- HiCET	
Outcome : This programme successfully equipped participants with the essential skills, knowledge, and mindset to foster creativity, drive innovation, and launch successful entrepreneurial ventures.	
Remarks and Feedback on the Event : The program provided a well-rounded approach to entrepreneurship and innovation, covering essential topics such as idea generation, business planning, resource management, and financial strategies.	
Plan of Implementing in HiCET (if any) : Similar events will be organised	
Signature of the Faculty / HoD / Principal	

PRINCIPAL
Hindusthan College Of Engineering & Technology
COIMBATORE - 641 032.

Copy of the Event Brochure / Invitation:

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COIMBATORE - 641032

Department of Management Sciences

Organises

Faculty Development Programme on Entrepreneurship & Innovation-Phase I

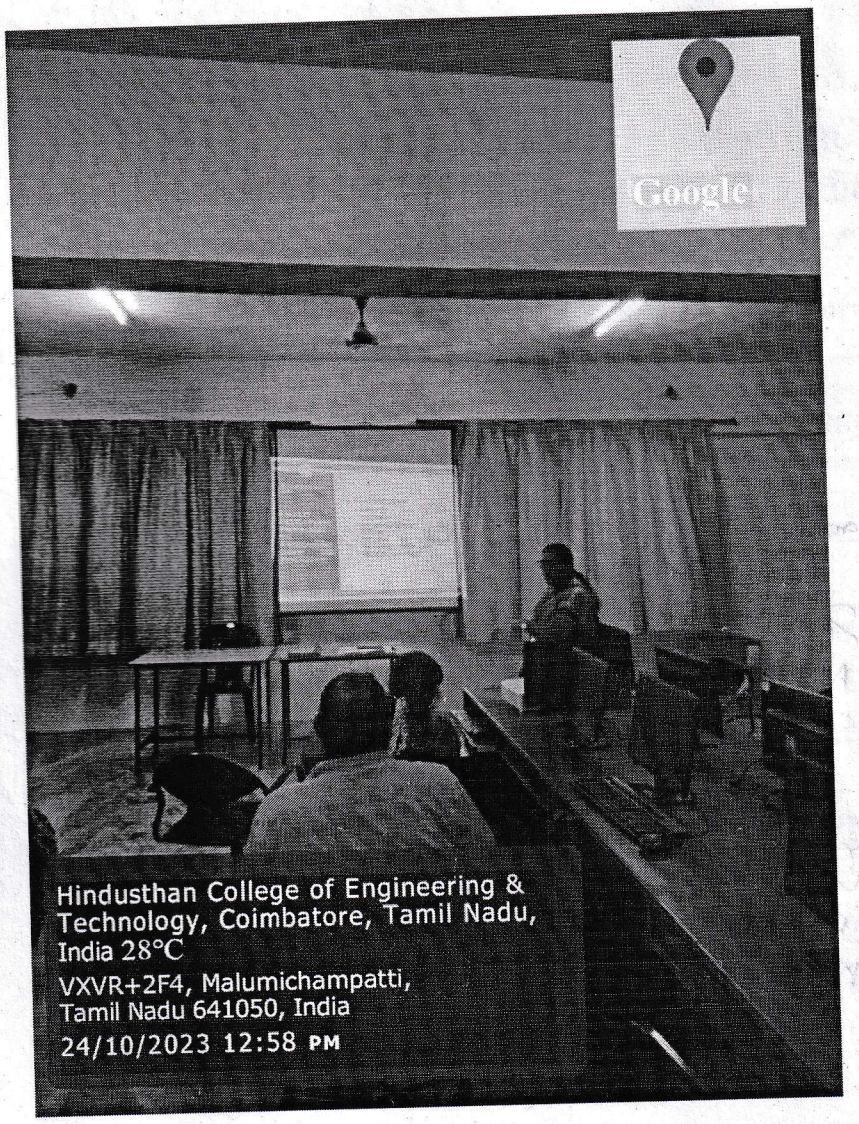


Resource Person:
Dr.M.Bhuvaneswari, Professor, MBA
Hindusthan College of Engineering & Technology,
Coimbatore

Venue : MBA Lab
Date : 24/10/2023
Time : 10.00.am.- 04.00.pm

HINDUSTHAN COLLEGE OF ENGG & TECH

Geo Tagged Photographs of Event:



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Department of Management Sciences

Date: 24.10.2023

Topic: FDP on Entrepreneurship & Innovation-Phase I

S.No.	Faculty Name	Signature
1.	R. Manoj	
2.	Jenis Bhavathi	
3.	A. Prasanth	
4.	K. Nithyavathi	
5.	Dr. P. Sangeetha	
6.	Dr. A. Jayanthi	Dr. A. J.
7.	K. Anitha	
8.	S. Bhuvaneshwari	
9.	Kavitharani	
10.	Siva Kumar K	

Faculty Coordinator

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Report for "FDP on Entrepreneurship & Innovation-Phase II" organized

Name of the Faculty : Dr .S.Kamalasaravanan	
Department : MBA	Designation : Professor
Name of the Event : FDP on Entrepreneurship & Innovation-Phase II	
Level : College Level	
Mode : Offline Venue : MBA Lab	
No. of Days : 1 day	Dates : 02.11.2023
Funded by : -	
No. of Participants : 10	Registration charges (if any) : Nil
Name and Designation of Resource Person : Dr .S.Kamalasaravanan, Professor, MBA- HiCET	
Outcome : This programme successfully enhanced participant's skills in fostering innovation and entrepreneurial mindset through practical knowledge and hands-on experience.	
Remarks and Feedback on the Event : The program provided a understanding of key entrepreneurial strategies and innovation tools, providing practical insights for real-world application.	
Plan of Implementing in HiCET (if any) : Similar events will be organised	
Signature of the Faculty	HoD / Principal

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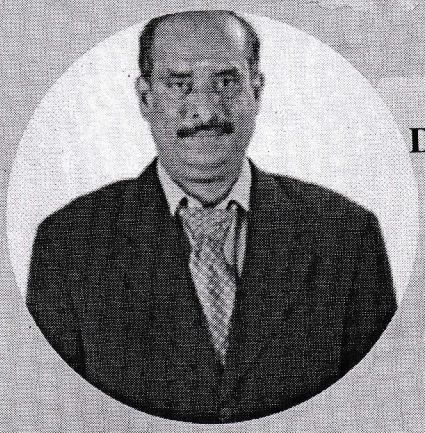
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Department of Management Sciences

Organises

Faculty Development Programme on Entrepreneurship & Innovation-Phase II

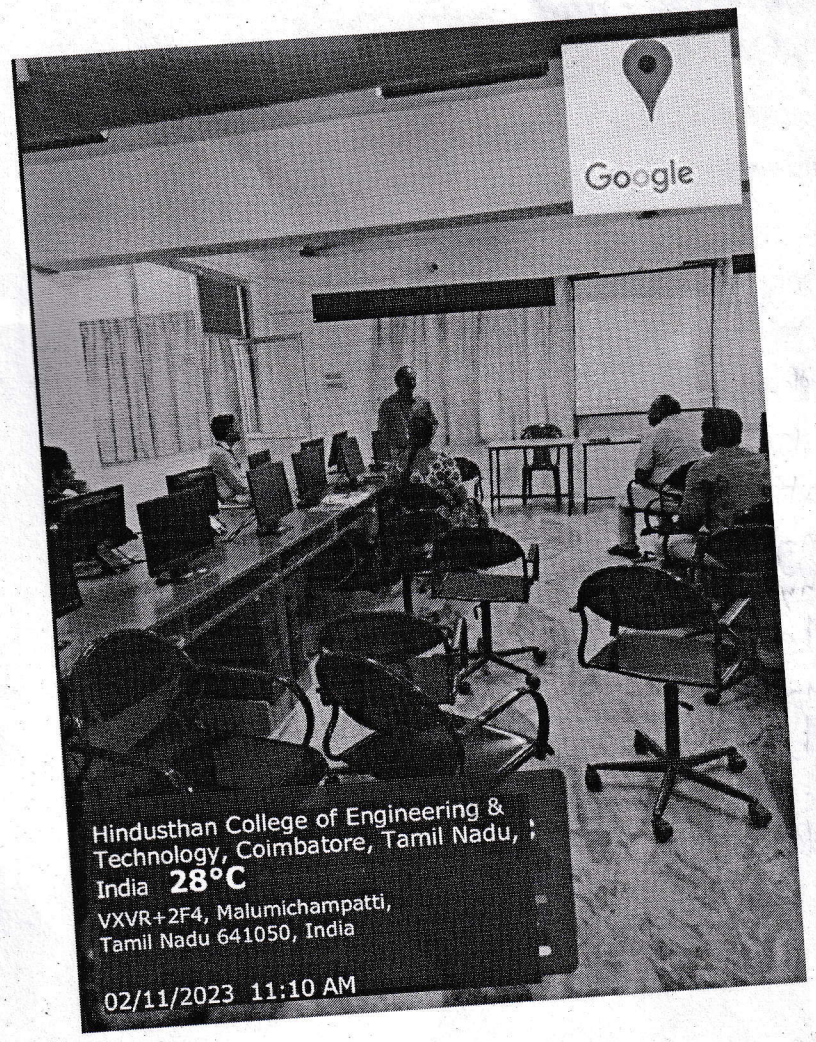


Resource Person:
Dr.S.Kamalasaravanan, Professor, MBA
Hindusthan College of Engineering & Technology,
Coimbatore

Venue : MBA Lab
Date : 02/11/2023
Time : 10.00.am.- 04.00.pm

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Department of Management Sciences

Date: 02.11.2023

Topic: FDP on Entrepreneurship & Innovation-Phase II

S.No.	Faculty Name	Signature
1.	K. Kavithamani	
2.	S. Balamurali	
3.	K. Sivakumar	
4.	M. Sangeetha	
5.	K. Nithyavathi	
6.	R. Manoj	
7.	A. Prasanth	
8.	Jenis bharathi	
9.	Sangeetha. D	
10.	Vanitha M.	

Faculty Coordinator

HOD

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Report for "Professional Development Training Programme for Drivers of HICET-Phase I" organized

Name of the Faculty : Dr .A.Jayanthi	
Department : MBA	Designation : Associate Professor
Name of the Event : Professional Development Training Programme for Drivers of HICET-Phase I	
Level : College Level	
Mode : Offline Venue : I MBA Classroom	
No. of Days : 1 day	Dates : 04.07.2023
Funded by : -	
No. of Participants : 10	Registration charges (if any) : Nil
Name and Designation of Resource Person : Dr.A.Jayanthi, Associate professor, MBA- HiCET	
Outcome : This programme will help instill a sense of responsibility, punctuality, and professionalism in the drivers.	
Remarks and Feedback on the Event : The drivers discussed with the resource person and got an idea about traffic rules and regulations.	
Plan of Implementing in HiCET (if any) : Similar events will be organised	
Signature of the Faculty HoD Principal	

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Department of Management Sciences

Organises

Professional Development Training Programme for Drivers of HICET- Phase I

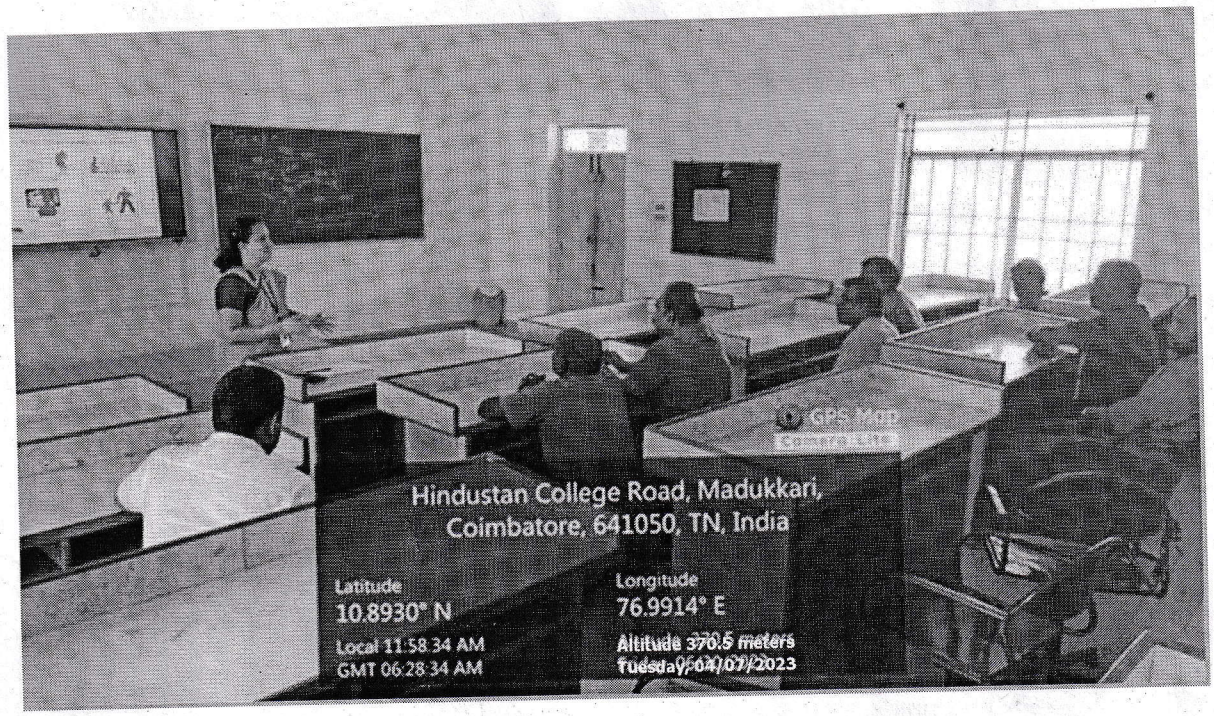


Resource Person:
Dr.A.Jayanthi
Associate Professor, MBA
Hindusthan College of Engineering & Technology,
Coimbatore

Venue : I MBA Hall
Date : 04/07/2023
Time : 11.30.am.- 12.30.pm

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Department of Management Sciences

Date: 04.07.24

Topic: Professional Development Training Programme for Drivers of HICET-Phase I

S.No.	Driver Name	Signature
1.	Mr.Ravikumar	
2.	Mr.Veeravijayan	
3.	Mr.Magesh. D	
4.	Mr.AkbarAli	
5.	Mr.Magesh	
6.	Mr.Thangaraj	
7.	Mr.Palanisamy	
8.	Mr.Sambath	
9.	Mr.Subburaj	
10.	Mr.Thirumalaisamy	

Faculty Coordinator

HOD

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College of Engineering and Technology,
Valley Campus, Coimbatore 641 032.
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Report for "Professional Development Training Programme for Drivers of HICET-Phase II" organized

Name of the Faculty : Dr .A.Jayanthi	
Department : MBA	Designation : Associate Professor
Name of the Event : Professional Development Training Programme for Drivers of HICET-Phase II	
Level : College Level	
Mode : Offline Venue : I MBA Classroom	
No. of Days : 1 day	Dates : 30.08.2023
Funded by : -	
No. of Participants : 11	Registration charges (if any) : Nil
Name and Designation of Resource Person : Dr.S.Kannan, Professor, Mechanical Engineering ,HICET	
Outcome : Emphasis on safety standards and protocols that must be followed during daily operations.	
Remarks and Feedback on the Event : The drivers discussed with the resource person and got an idea to manage risks and take proactive steps toward maintaining a safe work environment.	
Plan of Implementing in HiCET (if any) : Similar events will be organized	
Signature of the Faculty	HoD / Principal

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Department of Management Sciences

Organises

Professional Development Training Programme for Drivers of HICET- Phase II

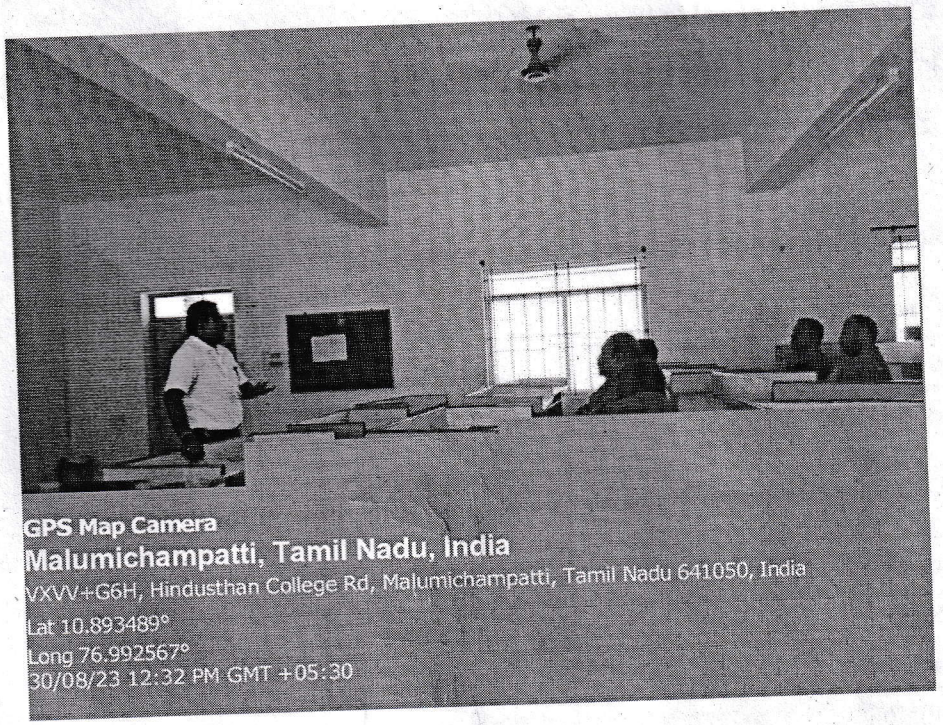


Resource Person:
Dr.S.Kannan
Professor,Mechanical Engineering
Hindusthan College of Engineering & Technology,
Coimbatore

Venue : I MBA Hall
Date : 30/08/2023
Time : 11.30.am.- 12.30.pm

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Department of Management Sciences

Date: 30.08.23

Topic: Professional Development Training Programme for Drivers of HICET-Phase II

S.No.	Driver Name	Signature
1.	Mr.Ravikumar	
2.	Mr.Veeravijayan	
3.	Mr.Magesh D	
4.	Mr.AkbarAli	
5.	Mr.Magesh	
6.	Mr.Thangaraj	
7.	Mr.Palanisamy	
8.	Mr.Sambath	
9.	Mr.Subburaj	
10.	Mr.Thirumalaisamy	

Faculty Coordinator

HOD

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Report for Workshop organized for Non-Teaching Staff

Name of the Faculties : Ms. Chinju Saju & Mr. Dhayalan V.	
Department : Agricultural Engineering	Designation : Assistant Professors
Name of the Event: Workshop on "Grafting of Horticultural Crops for Non-Teaching Staffs	
Level : College Level	
Venue / Mode: Crop Production Lab, Department of Agricultural Engineering	
No. of Days :1	Dates : 05 -07-2023 @ 10.30 AM
Funded by : NA	
No. of Participants : 17	Registration charges (if any) : Nil
Name and Designation of Resource Person(s) : Mr. Mohamed Abdullah (Diploma in Agriculture), Lab Technician, Department of Agricultural Engineering HICET, Coimbatore	

Outcome :

- Acquired practical knowledge in the field of Grafting of Mango plant.
- Got exposure to different types of grafting tools
- Obtained better knowledge about the principles of grafting and Precautions to be taken.

Remarks and Feedback on the Event:

It was really very useful as the participants are able to learn practically through interaction, working method and environmental practices in grafting which is sustainable agriculture practice which yield high quality food products. The resource person also explained everything in a comfortable manner so that the participants were able to grab the points easily.

Plan of Implementing in HiCET (if any) :

- Planning to set up a small garden inside the campus as best management practices

Signature of the Faculties

HoD

Principal

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DEPARTMENT OF AGRICULTURAL ENGINEERING

ORGANIZES

WORKSHOP ON "GRAFTING OF HORTICULTURAL CROPS FOR NON-TEACHING STAFFS "

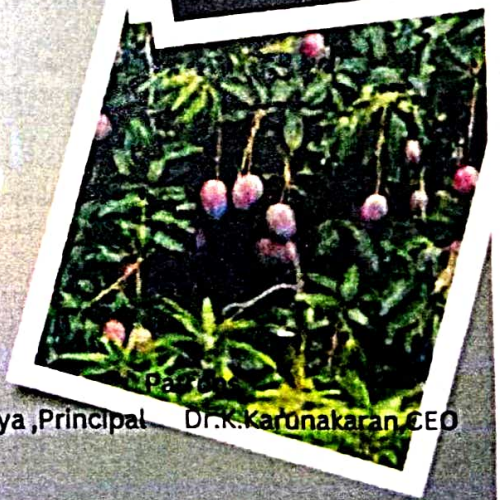
Resource Person



Mr.Mohamed Abdullah,
Diploma in Agriculture,
Lab Technician ,
Dept of. Agrl.Engg,
HiCET- Coimbatore.







VENUE: CROP PRODUCTION LAB, DEPT.OF AGRL.ENGG

DATE: 05.07.2033 AT 10.30 AM

Co-ordinators
Mr.V. Dhayalan, Asst.Prof
Mrs. Chinju Saju,Asst.Prof

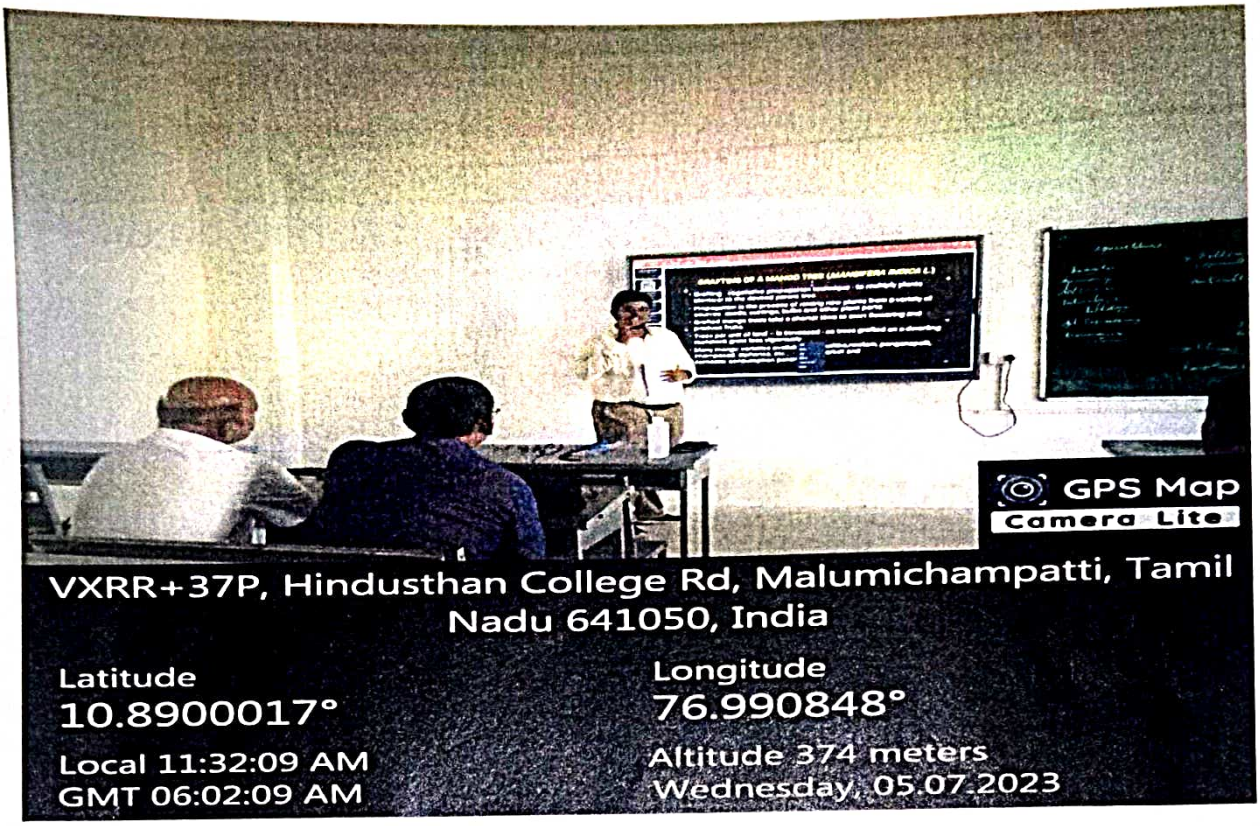
Convener
Dr. N.Sridhar
Assoc . Prof & Head

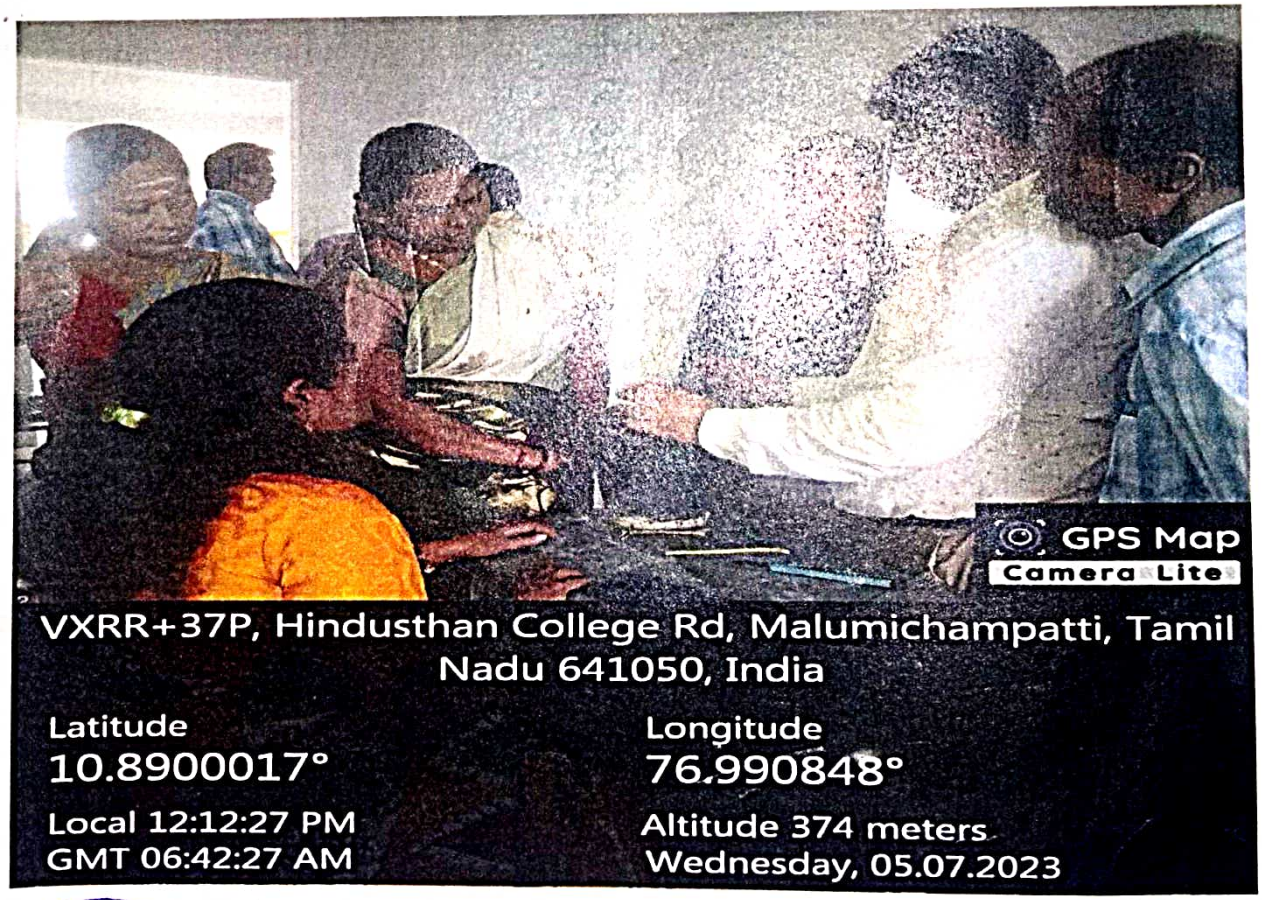
Dr.J.Jaya ,Principal

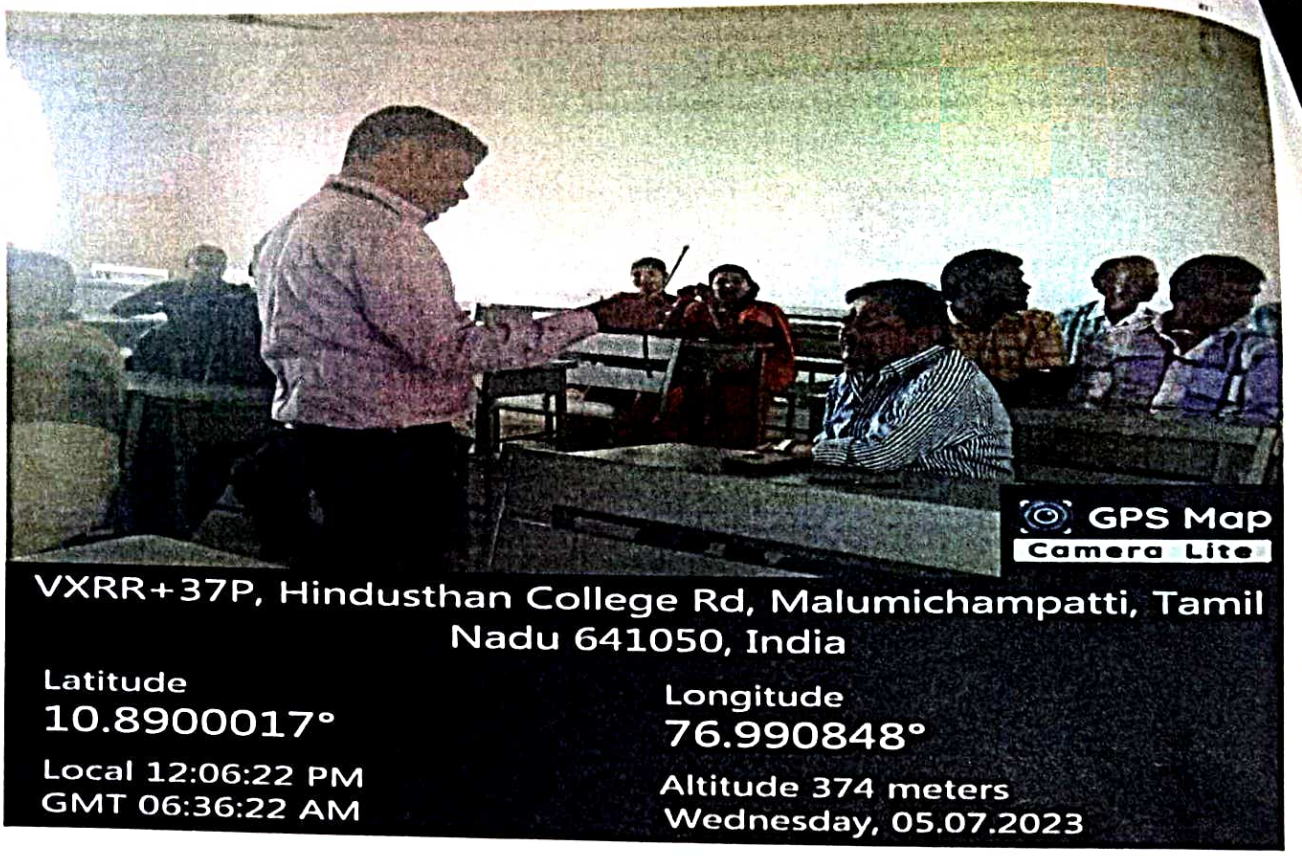
Dr.K.Karunakaran,CEO

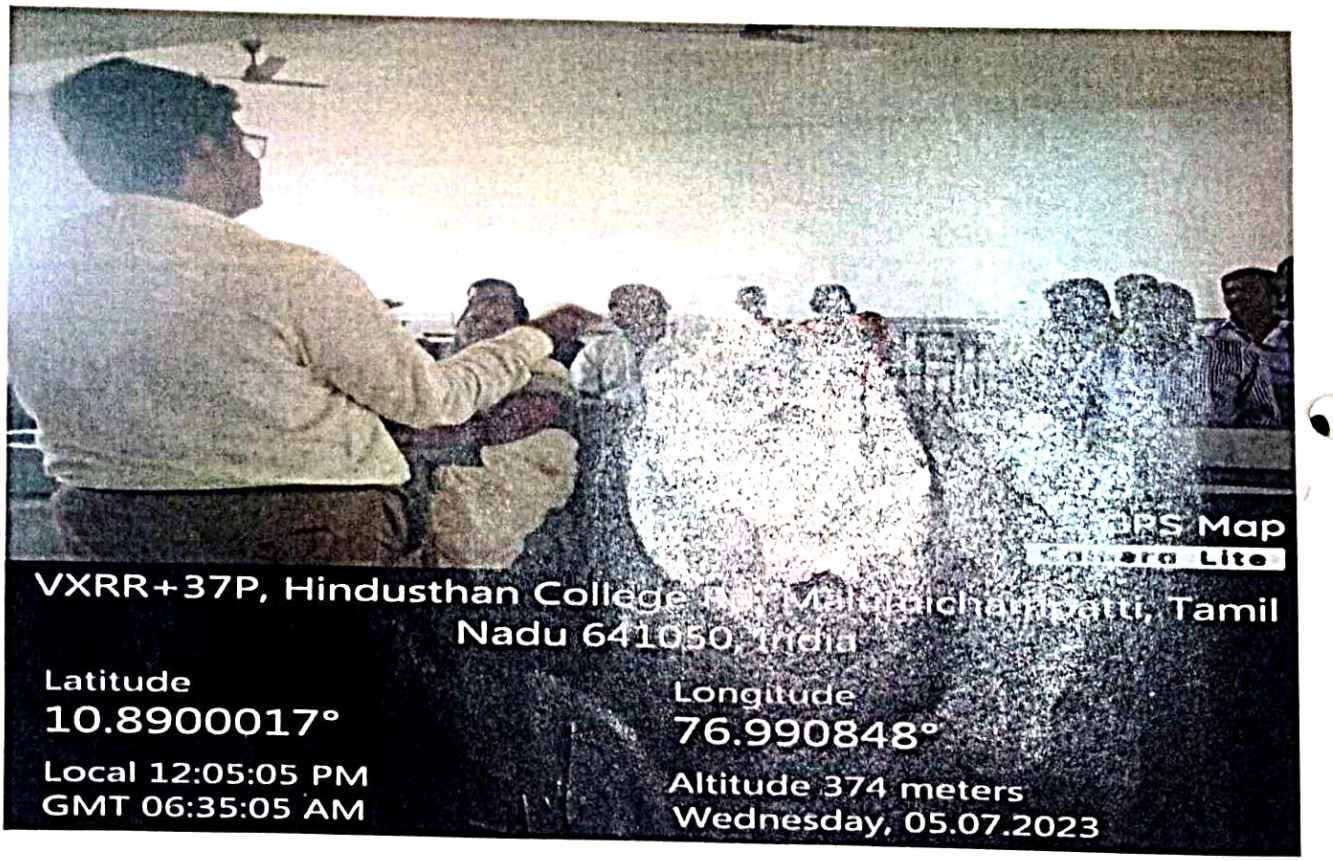
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DETAILED REPORT

Session started at 10: 30 AM. Welcome address is given by Mr. Dhayalan V., Assistant Professor, Department of Agriculture Engineering, HiCET. Dr. Sridhar N., HOD, Department of Agriculture has delivered the presidential address for the session. MoC team have introduced the Resource person, Mr. Mohamed Abdullah (Diploma in Agriculture) Lab Technician, Department of Agricultural Engineering, HICET, Coimbatore. Speaker has introduced the importance of Grafting in the present scenario and its principles. The few points he have expressed are given below:

Grafting of a mango tree (*Mangifera indica L.*)

- Grafting - vegetative propagation technique - to multiply plants identical to the desired parent tree.
- Propagation is the process of raising new plants from a variety of sources: seeds, cuttings, bulbs and other plant parts.
- Grafted mango trees take a shorter time to start flowering and produce fruits.
- Trees per unit of land – is increased - as trees grafted on a dwarfing rootstock grow less vigorously.
- Many mango varieties available like mallika,neelam, panganapalli, imampasad, alphonsa, etc., - great market and domestic consumption potential.

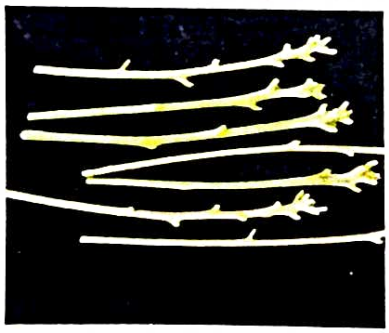


Life and Price

- Grafted trees usually produce fruit in 3 to 5 years in dry areas, while seedling trees usually take atleast 5 years to come into bearing.
- Mango trees can remain in production for 40 years or more.
- It is better to keep your tree to a maximum 15 feet (4.5m)… left to its own devices it may grow upto 30 feet.
- Mango trees are usually between 3 to10 m (10-33 ft) tall but can reach upto 30 m (100 ft).
- Grafted seedlings price may be upto 150 to 250 rupees based on the variety.

Principles of plant grafting

- Joining or uniting two separate woody parts of a living plant tissue from different trees or plants to form one plant.
- Parts used in grafting: Scion- refers to the bud or piece of stem that is to be attached to the rootstock.
- Rootstock refers to the seedling or tree upon which a scion is to be attached.
- Materials selected as scions should be taken from terminals buds (end of a branch) of a tree or plant, at the 'tight bud stage' or before a new flush with buds which are swollen but have not opened.
- There are several grafting methods which differ according to how the scion is attached to the rootstock. These grafting methods are top/wedge, whip/tongue and side/ veneer. Usually mango seedlings are grafted using top/wedge grafting method.



Mango Scions Wedge Join



Mango Rootstock



Top

Fig. 2 Top/ Wedge Grafting in Mango Plant

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Propagation tools & materials

- Required tools and materials: Pruning scissor, scalpel, or grafting knife.
- The ideal material for covering should be a clear polythene strip that is water proof and flexible.
- Sterilizer such as spirit, but other alternative could be used such as rubbing isopropyl (alcohol - although it evaporates quite readily)
- Plastic bag to collect scion or wet newspaper or cooler box (optional).



Fig. 3 Grafting Accessories

Rootstock selection

- A good rootstock is very important for future production of high quality mango fruits.
- The rootstock provides the rooting system and part of the stem of the future mango tree.
- Healthy, strong and free of pests.
- About 6 months old (which should be at least 25 cm tall) with a stem as thick as a pencil.

Scions selection

- Quality of scion - productive crown of your future mango tree.

- Healthy mother tree of the desired variety and quality.
- Select scions from the end of the branches which are as thick as a pencil and have an active, healthy terminal bud.
- Cut the scion at 10 cm length with a pruning scissor or secateurs or a very sharp knife.
- Remove the leaves from the scion with a clean sharp knife or secateurs.
- Wrap the fresh cut scions in a wet newspaper and put the package in a plastic bag.
- Transport your scions to the place of grafting soonest. Store the package at a cool place during transport and use a cooling box for longer transport if available.

Preparing rootstock for top or wedge grafting

- Ensure that you pair scions to rootstock of the same thickness.
- Cut the mango rootstock seedling horizontally at a height of about 6 – 8 cm above soil level by using a pruning scissor or sharp knife.
- Split the cut upper end of the rootstock through to a depth of about 3 cm using a very sharp knife.
- Cut the scion to a final length of about 10 cm with a pruning scissor or a sharp knife.
- Use the scalpel or razor blade to sharpen the cut lower end of the scion to a V-shape by removing the wood on both sides of the scion.
- Try to make the V-shape as deep as possible as this will increase the survival rate of your grafted scion. About 2 – 3 cm long is suitable.
- Slide the sharpened end of the scion into the slot you have cut on the rootstock.
- Insert the scion as deep as possible into the cut of the rootstock and align the two parts.
- Fix both the scion and rootstock in place by covering the point of union until it is healed.
- Hold the union carefully with one hand.
- With your other hand, wrap the grafting tape or the polythene strip tightly around the union and knot or inter-loop the two ends of the tape/strip.

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- Make sure that the wrapping is tight enough and that the scion does not move out of the union while wrapping.
- To increase the temperature and humidity around the grafted area - improving the chances of a successful graft union.
- Wrap another grafting tape or polythene strip around the scion, but a bit more loosely than the one bandaging the union.
- Knot or inter-loop the two ends of the tape/strip.
- Don't cover the upper part of the scion which is the terminal bud so that it can grow and produce new leaves.
- Label the grafted seedling with the name of the scion variety.
- Keep the grafted seedling in the shade and water it well.
- After about 14-21 days the scion should have developed new leaves and the wound should have healed.
- Remove the grafting tape or polythene strip when the wound is fully healed. Be careful not to injure the stem when removing the tape/strip.

Post grafting care: Hardening, transplanting and removal of terminal bud

- Harden your grafted seedling to avoid shock by placing them in a shade house or a shaded area for 6-8 weeks before transplanting.
- Transplant the grafted seedling into a well prepared planting hole *(refer to planting manual)*.
- About 6 months after transplanting, you can remove the terminal bud of the stem to initiate branching at the desired height of your mango tree.
- *Overwatering of recently grafted plants is a common fault encountered as there is minimal loss of water through leaves. Please do not overwater the grafted plant.*

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DEPARTMENT OF AGRICULTURAL ENGINEERING

Event name: Workshop on "Grafting of Horticultural Crops for Non-Teaching Staffs"

Resource Person: Mr.Mohamed Abdullah,
Lab Technician, Dept. of.Agrl.Engg

Venue: T301 **Date & Time: 05/07/2023 & 10.30 A.M**

Attendance

S.NO	Name	Designation	Department	Signature
1.	R. [illegible]			R. [illegible]
2.	D. MANOJKUMAR			D. MANOJKUMAR
3.	K [illegible]			K [illegible]
4.	ST. JEGURAJAN	LAB TECHNICIAN	MECH	ST. J
5.	P. SIVAKUMAR	"	"	P. Sivakumar.
6.	Gr-A. Murugan	"	AERO	M
7.	M. THAMARAISELVAN	"	AUTO	MTMS
8.	S. Ambiga.	Lab Technician	ECE	
9.	P Jmdaya Sam	Lab. Technician	Civ.L	
10.	M. Geethanjali	Lab Assistant	CIVIL	M.Geeth.
11.	Nandhini. M	"	Food Tech	M.Nandhini.
12	S Deepa	"	Chmical	S Deepa
13.	SARVNKUMAR	LAB TECHNICIAN	MCT	SAKA
14.	P. SIVASUBRAMANIAN	L.T	FT	P. S
15	G. Nandhakumar	Lab Technician	Biomedical	G. Nandhakumar
16	P. Manguyar Karasi	office Assistant	CSE	P. Manguyar Karasi
17	G. Thillainayaki	office Assistant	IT	G. Thy

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Event Coordinator

HOD

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Valley Campus, Pollachi Highway, Coimbatore – 641 032

Event Feedback

Department of Agricultural Engineering

Name of the Event: Workshop on "Grafting of Horticultural Crops for Non-Teaching Staffs

Name of the participants : Nandhini: M

Dept : Food Technology.

Date of Event: **05.07.2023**

1. How satisfied were you with the event?

○ Excellent ○ Good ✓ Average ○ Poor

2. How likely would you be to attend our events in the future?

○ Excellent ✓ Good ○ Average ○ Poor

4. How useful was the event?

○ Excellent ✓ Good ○ Average ○ Poor

5. What are the takeaways from the event? Advantages of Grafting

Pls Share, if any Suggestions

Participate more events.

Participants Sign

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Valley Campus, Pollachi Highway, Coimbatore – 641 032

Event Feedback

Department of Agricultural Engineering

Name of the Event: Workshop on "Grafting of Horticultural Crops for Non-Teaching Staffs

Name of the participants: Sivaignesh .P

Dept : Food Technology

Date of Event: **05.07.2023**

1. How satisfied were you with the event?

○ Excellent ✓ Good ○ Average ○ Poor

2. How likely would you be to attend our events in the future?

○ Excellent ✓ Good ○ Average ○ Poor

4. How useful was the event?

○ Excellent ✓ Good ○ Average ○ Poor

5. What are the takeaways from the event? Accessories for Grafting

Pls Share, if any Suggestions

Want to setup a small terrace garden

Participants Sign

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Event Feedback

Department of Agricultural Engineering

Name of the Event: Workshop on "Grafting of Horticultural Crops for Non-Teaching Staffs

Name of the participants : G. Nandhakumar

Dept : Bio Medical Engg

Date of Event: **05.07.2023**

1. How satisfied were you with the event?

☑ Excellent ○ Good ○ Average ○ Poor

2. How likely would you be to attend our events in the future?

○ Excellent ☑ Good ○ Average ○ Poor

4. How useful was the event?

☑ Excellent ○ Good ○ Average. ○ Poor

5. What are the takeaways from the event? Types of grafting

Pls Share, if any Suggestions

Nil

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GNR

Participants Sign

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Event Feedback

Department of Agricultural Engineering

Name of the Event: Workshop on "Grafting of Horticultural Crops for Non-Teaching Staffs

Name of the participants : S. Sivaranjani

Dept : Bio Medical Engg

Date of Event: **05.07.2023**

1. How satisfied were you with the event?

○ Excellent ✓ Good ○ Average ○ Poor

2. How likely would you be to attend our events in the future?

✓ Excellent ○ Good ○ Average ○ Poor

4. How useful was the event?

○ Excellent ✓ Good ○ Average ○ Poor

5. What are the takeaways from the event? Grafting Practice

Pls Share, if any Suggestions

Want to attend more events like this

HINDUSTHAN COLLEGE OF ENGG & TECH

S S

Participants Sign

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution, Affiliated to Anna University, Chennai)

Valley Campus, Pollachi Highway, Coimbatore – 641 032

Event Feedback

Department of Agricultural Engineering

Name of the Event: Workshop on "Grafting of Horticultural Crops for Non-Teaching Staffs

Name of the participants : S. Deepa

Dept : Chemical Engineering

Date of Event: **05.07.2023**

1. How satisfied were you with the event?

○ Excellent ✓ Good ○ Average ○ Poor

2. How likely would you be to attend our events in the future?

✓ Excellent ○ Good ○ Average ○ Poor

4. How useful was the event?

○ Excellent ✓ Good ○ Average ○ Poor

5. What are the takeaways from the event? Interest to do Agriculture

Pls Share, if any Suggestions

Nil

Deepa
Participants Sign

12

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST

HICET

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
Valley Campus, Pollachi Highway, Coimbatore 641 032.
www.hicet.ac.in

Report for _____Workshop_____ organized / participated

Name of the Faculty : S.Dinesh Kumar &V.Amaran	
Department : Agriculture Engineering	Designation : Assistant Professor
Name of the Event: **Workshop on "How to write a paper for high impact journal "**	
Level : College level / National / State / Regional / Industry / University / College Level	
Venue / Mode: offline	
No. of Days : 1	Dates : 25.07.2023
Funded by : Not applicable/DST /DSIR/TNSCST /ICSSR /NCERT /INSA/ Management etc	
No. of Participants : 78	Registration charges (if any) : Nil
Name and Designation of Resource Person(s) : **Dr.A.Selvaraj,** Associative professor, UDICT,MGR university	

Outcome : Faculty Members and Students were able to

- **Enhanced Writing Skills**: Participants learned effective strategies and techniques for writing papers that meet high impact journal standards, improving their academic writing proficiency.
- **Publication Readiness**: The workshop provided practical guidance on manuscript preparation, submission processes, and peer review, preparing attendees for successful publication.
- **Quality Improvement**: Attendees gained insights into enhancing the quality and visibility of their research through targeted journal selection and impactful writing.

Remarks and Feedback on the Event:
Participants appreciated the workshop for its practical insights and guidance in navigating the complexities of publishing in high impact journals, enhancing their research dissemination skills significantly.

Plan of Implementing in HiCET (if any) :

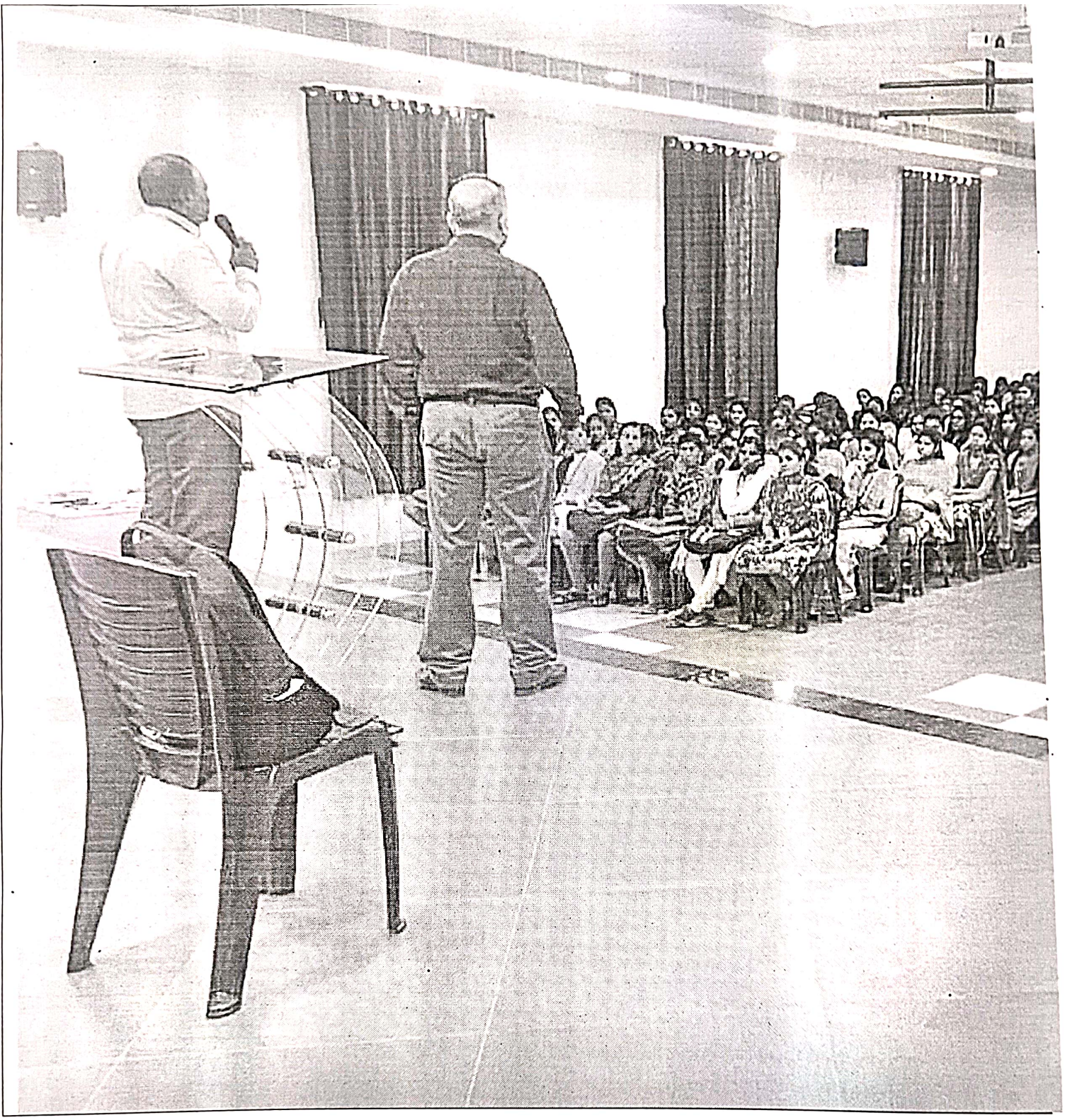
Signature of the Faculty

HoD

Principal

PRINCIPAL
Hindusthan College Of Engineering & Technology
COIMBATORE - 641 032.

HINDUSTHAN COLLEGE OF ENGG & TECH - COIMBATORE



HINDUSTHAN COLLEGE OF ENGG & TECH

S.NO	NAME	SIGN
1.	Abinaya.M	
2.	Abinesh Kumar.M	
3.	Analcha santhosh	
4.	Antel Steena J	
5.	Arul prakash. S.	
6.	Gokul G	
7.	Jeba Jeni. J	
8.	Kamalesh. M.	
9.	Pooja KR	
10.	Kavin Bala R	
11.	Prasanth. A.	
12	Sundar M	
13.	Prithisha. B	
14	Niya P	
15.	vishnu vardhan s	
16	Gokul DASS	
17.	Chinnasivam s.	
18	Nithish M	
19.	shyamganesh J	
20	Priyadharshini. M	
21.	Chandrajith N.	
22	Prasanna devi	
23	Priscilla. V	
24	Cheran R	
25	Roshan J	
26	Pavithra G	
27	Sanjai M	
28	Shruthi A	
29	subashini. M	
30	Sanju R	
31	Surya. J	
32	Jegan G	
33	Gokul Raj C T	
34	Rathna A	
35	Gopika sri P	
36	Varshini B	
37	Haritha Hari H	
38	Srivarshini	
39	Karpagavalli R	
40	Rishikesh	
41	Kruthikdas K.	
42	Vandhinika	
43	Mahaharini P	
44	Sanmathi Sri	
45	Mohamed Nasrudeen N	
46	Siva Prakash S	
47	Muhammed Muddsir	
48	Nithish R M	
49	Nasreen	
50	Manojkumar	
51	Pooja	
52.	Anitha Sri S V	

53	Abdul Hadhi k N	
54	Bhagath A	
55	Gokul G	
56.	Ashin O	
57	Indiyaj M	
58.	Jenisha T J	
59	Kalidhasan S B	
60.	Naffi	
61	Sandhya S	
62	Shameela P M	P.M
63	Sriram P	
64	Divyabharathi P	
65	Amal Jyothi	
66	Anakha Shibani X	
67	Abdullah Jazim N	
68	Asaph J	
69	Mounisha k P	
70	Gokul G	
71	Prasanna S	
72	Nirmal raj	
73	Andrea Shibani X	
74	Nithish M	
75	Soumiya S k	
76	Sudheer	
77	Sriram V	
78.	Abineshkumar S	



HINDUSTHAN

COLLEGE OF ENGINEERING AND TECHNOLOGY

Pollachi Main Rd, Coimbatore, Malumichampatti, Tamil Nadu 641050

Department of Agricultural Engineering

Organizes workshop on

How to write a paper for high impact journal



Speaker

Dr. A. Selvaraj,
Asoociate professor,
UDICT,
MGM University.

25, july 2023

TIME
1.00pm to2.00 pm

Venue
Kalam Auditorium

Co-Ordinator's	Convener	Principal	CEO
S.Dinesh kumar, AP V. Amaran, AP	Dr. N. sridhar, Agri HOD	Dr. J. Jaya	Dr. K .Karunakaran

13

HICET

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
Valley Campus, Pollachi Highway, Coimbatore 641 032.
www.hicet.ac.in

Report for Training organized / participated

Name of the Faculty : S.Dinesh kumar , S. Sekar	
Department : Agriculture Engineering	Designation : Assistant Professor
Name of the Event: **Training on "Training programme on maintenance, testing and usage of electronic instruments"**	
Level : Institutional level / National / State / Regional / Industry / University / College Level	
Venue / Mode: offline	
No. of Days : 1	Dates : 21.08.2023
Funded by : Not applicable/DST /DSIR/TNSCST /ICSSR /NCERT /INSA/ Management etc	
No. of Participants : 82	Registration charges (if any) : Nil
Name and Designation of Resource Person(s) : **Mr.Jinna,** CSE department, HICET	
Outcome : Faculty Members and Students were able to • **Technical Proficiency**: Participants acquired practical skills in the maintenance, testing, and usage of electronic instruments, enhancing their technical expertise. • **Quality Assurance**: The training focused on ensuring accurate calibration and reliable performance of electronic instruments, improving product quality and reliability. • **Operational Efficiency**: Attendees learned efficient usage and troubleshooting techniques, contributing to reduced downtime and enhanced productivity in electronic instrument operations	
Remarks and Feedback on the Event: Participants appreciated the training for its practical insights and hands-on experience in effectively maintaining, testing, and using electronic instruments, enhancing their technical proficiency significantly.	
Plan of Implementing in HiCET (if any) :	
Signature of the Faculty	HoD / Principal

PRINCIPAL
Hindusthan College Of Engineering & Technology
COIMBATORE - 641 032.



HINDUSTHAN COLLEGE OF ENGG & TECH. COIMBATORE

S.NO	PARTICIPANT NAME	SIGNATURE
1	Aarthika . J	
2.	Abhiramy . C.R	
3.	Aelred Infancia Jolin.A	
4.	Akshaya.M	
5.	Alif Ansil P.P	
6.	Anitha Sri S.V	
7.	Arun karthick. A	
8.	Bhavya.P	
9.	Bisno Benny	
10.	cheran.R	
11.	Dhiloop Kumar.R.S	
12.	Eshani Bhas.K	
13.	Gokul Dass.M	
14	Janagan.S	
15	Jegan.G	
16	Kalaiselvan.G	
17	kamesh.k	
18	Kodippuli Raja.N.M	
19	Manikandan.V	
20.	Manojkumar.R	
21	Yogeshpreeja	
22	MUKILA K	
23	ELAVANANE	
24	Nibana.S	
25	PRAVEENKUMAR	
26	ADITHYA M	
27	VALLARASU	
28	VIJayan	
29	sanvesh k	
30	Subhashini K	
31	KOMEEsh M	

USTHAN COLLEGE OF ENGG

32	AARTHIKA J	
33	ABHIRAMY ER	
34	CHERAN R	
35	Jegan	
36	Abinaya M	
37	Gokul G	
38	Sundas M	
39	Sricchandana	
40	M Dharani.	
41	Abinesh kumar S M	
42	ANGEL STEFFI J	
43	ABDUL PRAKASH S	
44	BALAVARUNAN S	
45	BASITH SHAIKH	
46	ADITHYA	
47	SHYAMGANESH	
48	PRAVEENKUMAR V	
49	CHINNASIVA S.	
50	WASIMUDDEEN J	
51	VASANTHKUMAR S	
52.	THARANITHARAN.S	
53	UDHAY ABOOMI.N	Udhay Bhoomi.N
54	VANDHINIKA.S	VANDHI
55	VARSINI.B	Varsini.
56	VIGNESH.V	
57	VIJAY KUMAR.M	
58	VIMALA.S	
59	VISHNU.M	
60	YUVA VISHNU.G	
61	Surya J	
62.	Sundas M	
63	NIBAAS S	

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ACCREDITED BY NBA (AERO, AUTO, CIVIL, CSE, ECE, EEE, IT, MECH, MCTE)
ACCREDITED BY NAAC A++ GRADE WITH CGPA OF 3.49 OUT OF 4 IN CYCLE 3
VALLEY CAMPUS, COIMBATORE - 641 032, TAMIL NADU, INDIA

DEPARTMENT OF AGRICULTURAL ENGINEERING

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Training ProgrammeMaintences,testing and usage of electronic Instruments

COORDINATOR
S. Dinesh kumar,AP
S. Sekar, Assoct. professor.

CONVENOR
Dr. N. Sridhar
HOD/AGRI

PRINCIPAL
Dr. Jaya J

CEO
Dr. Karunakaran K

E- Certificate will be provided to all the participants

21 AUG

11:30 AM

GUEST SPEAKER



Mr.Jinna,
CSE Department,
HICET.

14

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST

HICET

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

Valley Campus, Pollachi Highway, Coimbatore 641 032.
www.hicet.ac.in

Report for Guest lecture organized / participated

Name of the Faculty : M. KALAISELVI , K. RAMYA	
Department : Agriculture Engineering	Designation : Assistant Professor
Name of the Event: **Guest lecture on "Guidance to develop farmer producing organizations"**	
Level : Institutional level National / State / Regional / Industry / University / College Level	
Venue / Mode: offline	
No. of Days : 1	Dates : 06.10.2023
Funded by : Not applicable DST /DSIR/TNSCST /ICSSR /NCERT /INSA/ Management etc	
No. of Participants : 75	Registration charges (if any) : Nil
Name and Designation of Resource Person(s) : **Dr.Balamurugan,** Erode FPO Head,	
Outcome : Faculty Members and Students were able to Participants gained practical strategies and frameworks for developing and managing farmer producing organizations (FPOs), enhancing their organizational effectiveness. The lecture focused on empowering farmers with knowledge on collective marketing, access to resources, and policy advocacy through FPOs. Attendees connected with experts and peers, fostering partnerships and knowledge exchange to strengthen FPOs.	
Remarks and Feedback on the Event: Participants found the guest lecture on developing farmer producing organizations informative and empowering, providing valuable guidance for collective empowerment and rural development.	
Plan of Implementing in HiCET (if any) : Encourage the students to make farmer producing organization in native place	
Signature of the Faculty	HoD / Principal

PRINCIPAL
Hindusthan College Of Engineering & Technology
COIMBATORE - 641 032.

HINDUSTHAN COLLEGE OF ENGG & TECH. COIMBATORE


GPS Map Camera
Malumichampatti, Tamil Nadu, India
VXRR+37P, Hindusthan College Rd, Malumichampatti, Tamil Nadu 641050, India
Lat 10.889991°
Long 76.990797°

S.NO	NAME	SIGNATURE
1	ABinaya.M	ABinaya.M
2	Dakshata.R	Dakshata.R
3	Surya J	Surya.J
4	SUNDAR	Sundar.V.
5	VALLArasu	Vallarasu
6	VINITHkumar.S	VinithKumar.
7	POOJA	Pooja.
8	ADITHYA	Adithya.
9	Nibass.	Nibass.
10	MUKILA K	Mukila.K
11	SARVESH K	Sarvesh
12	KAMALLESH	Kamallesh
13	SUBHASini	Subha.
14	VINAYAGAM U	Vinayagam.
15	VINITH KUMAR.S	Vinith Kumar.
16	YOGESHPRIYA A	Yogeshpriya
17	SANJAI.	Sanjai.A
18	GOKUL.	Gokul.
19	Soundarya	Soundarya.
20	ELAVARASAN.E	Elavarasan.
21	PRAVEEN KUMAR.V	Elavarasan.
22	KARTHIK KUMAR C	Karthik Kumar
23	TAMIZHPRIYAN E	Tamizhpriyan.
24	VIJAYAN M	Vijayan.M
25	NAVEEN M	Naveen

HINDUSTHAN COLLEGE OF ENGG & TECH · CBE · 32 ·

26	ABDUL HADHI K N	KN ABDUL HADHI.
27	ABINESHKUMAR S	Abineshkumar. S.
28	ALFINA A	A. Alfina
29	ANAL JYOTHI	Anal Jyothi
30	ANUSIYA	Anusiya.
31	ASAPH J	Asaph. J
32	ASHIN D	Ashin.
33	DIVYABHARATHI P	Divya.
34	GOKUL G	Gokul.
35	HARIHARAN M.	HARI. M
36	KALIDHASAN S B.	Kalidhasan.
37	NAFI	Nafi
38	NIRMAL RAI E	Nirmal Rai E
39	NITHISH N	Nithish.
40	PRASANNA S	S. Prasanna.
41	SHANEELA P N	Shan.
42	SOWMIYA S K	Sowmia S.K.
43	SUDHEE V M	Sudheev. M.
44	SWETHA B	B. Swetha.
45	THIREKA K.	Thireka
46	VELNURUGAN M	Vel.
47	VICKRAN M	Vickram M
48	VISHWA R.	Vishwa
49	YUVAN SANKAR C	Yuvan Sankar. C
50	VIDYA A M	Vidhya A M
51	VAISHALI A	Vaishali. A.

HINDUSTHAN COLLEGE OF ENGG & TECH

52	JANAGAR.S	
53	JEGAN.G	Jegan.G
54	KALIMUTHU.G	
55	KAMESH.k	
56	KODIPPULI RAJA.N.M	
57	MANIKANDAN.V	
58	MANOJKUMAR.R	
59	MITHILESH.K.M	
60	MOHIT RAJ.M.H	
61	MUGUNTHAN.S	Mugunthan.S.
62	NAVASAKTHI.V	
63	NAVEEN KUMAR.P	Naveen. Kumar.
64	NITHISH.R.M	
65	NIYA.P	Niya.P.
66	PAVITHRA.G	
67	PRASANNA.DEVI.R	Prasan. Devi.R
68	RATHNA.A	
69	RISHIKAESH.T	Rishi Ke. T.
70	SANJU.R	
71	SIBIN.R	Sibin.R
72	SHRUTHI.A	
73	VIMALA.S	
74	BHAVYA P	Bhavya.P.
75	CHERAN.R	Cheran P.

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HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

AN AUTONOMOUS INSTITUTION, APPROVED BY AICTE, NEW DELHI, AFFILIATED TO ANNA UNIVERSITY, CHENNAI
ACCREDITED BY NBA (AERO, AUTO, CIVIL, CSE, ECE, EEE, IT, MECH, MCTS)
ACCREDITED BY NAAC 'A++' GRADE WITH CGPA OF 3.69 OUT OF 4 IN CYCLE 2
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DEPARTMENT OF AGRICULTURAL ENGINEERING

&

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Leture and guidance to delvelopfarmer producing organizations

COORDINATOR
M. Kalaiselvi,AP
S. Gowsalya.

CONVENOR
Dr. N. Sridhar
HOD/AGRI

PRINCIPAL
Dr. Jaya J

CEO
Dr. Karunakaran K

GUEST SPEAKER



Dr. Balamurugan
Erode FPO Head.

Hindusthan
College of Engineering and Technology,
Valley Campus, Coimbatore 641 032.

HICET www.hicet.ac.in

Report for Seminar on "Awareness and integration of Sustainable Practices in Non-Technical Operations" organized

Name of the Faculty	:	Ms Induja P / Mr Dineshkumar M
Department	:	Chemical Engineering Designation: Assistant Professor
Name of the Event	:	**Seminar on "Awareness and integration of Sustainable Practices in Non-Technical Operations"**
Level	:	International / National / State / Regional / Industry / University / College

Mapping with UN SDGs (Tick the relevant) : No poverty **(SDG 1)**, Zero hunger **(SDG 2)**, Good health and well-being **(SDG 3)**, Quality education **(SDG 4)**, Gender equality **(SDG 5)**, Clean water and sanitation **(SDG 6)**, Affordable and clean energy **(SDG 7)**, Decent work and economic growth **(SDG 8)**, Industry, innovation and infrastructure **(SDG 9)**, Reduced inequalities **(SDG 10)**, Sustainable cities and communities **(SDG 11)**, Responsible consumption and production **(SDG 12)**, Climate action **(SDG 13)**, Life below water **(SDG 14)**, Life on land **(SDG 15)**, Peace, justice, and strong institutions **(SDG 16)**, and Partnerships for the goals **(SDG 17)**.

Venue / Mode	:	Department of Chemical Engineering
No. of Days	:	01 Dates : 06.04.2024
Funded by	:	UGC / CSIR / DST / DSIR / TNSCST / ICSSR /NCERT /INSA/
No. of Participants	:	22 Registration charges (if any): NIL

Name and Designation of Resource Person(s)

Mr Dineshkumar M
Assistant Professor
Department of Chemical Engineering,
Hindusthan College of Engineering and Technology, Coimbatore.

Outcome

Participants gain practical knowledge and tools to implement eco-friendly practices in administrative, campus, and daily operations, ultimately fostering a sustainable campus environment.

Remarks and Feedback on the Event: Attached

Plan of Implementing in HiCET (if any)

- Staffs understand the importance of SDG goals and to reach the same they will implement in their daily tasks from handling laboratories to disposing the wastages.
- Every six months, e-waste and paper waste collection will be done.

Signature of the Faculty **HoD** **Principal**

PRINCIPAL
Hindusthan College Of Engineering & Technology
COIMBATORE 641 032.

Shot on Y30

opy of the Event Brochure / Invitation:

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST
HICET

Hindusthan

College of Engineering and Technology

An Autonomous Institution

Valley Campus, Pollachi Highway, Coimbatore 641 032.

Department of Chemical Engineering

Organizes Seminar on

Awareness and Integration of Sustainable Practices in Non-Technical Operations

Resource Person

Mr Dineshkumar M

Assistant Professor
Department of Chemical Engineering

06.04.2024 | 10:00 IST

Department of Chemical Engineering

Patrons Dr K Karunakaran, CEO
Hindusthan Educational Institutions.
Dr J Jaya, Principal, HiCET

Convener Dr Seenuvasan M, Head

Co-ordinator

Ms Induja P
Assistant Professor

Mr Dineshkumar M
Assistant Professor

Cordially Invites you all

HINDUSTHAN COLLEGE OF ENGG & TECH. CBE. TN

Shot on Y30
AI Quad Camera
2024.07.02 16:46

eo Tagged Photographs of Event – 2 Nos:





HINDUSTHAN COLLEGE OF ENGG & TECH. · CBE

Signed Attendance Sheet: Attached

HICET

Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore 641 032.
www.hicet.ac.in

Attendance Report

Name of the Event : **Awareness and Integration of Sustainable Practices in Non-Technical Operations for Non-Teaching Faculty Members**

Date : **06.04.2024**

Coordinator : **Mr Dineshkumar M & Ms Induja P**
Assistant Professor, Department of Chemical Engineering.

S. No	Participant Name	Identity	Signature
1	R. [illegible]		R. [illegible]
2	M. VIJAYAKUMAR.	CIVIL	M. [illegible]
3	P. Induja Samu.	CHL	[illegible]
4.	N. Thillainayaki	IT	N. Thy
5	Mr. Palani Samy	S&H.	[illegible]
6.	P. Dhanekaran	S&H	[illegible]
7.	S. ARUNKUMAR	MCT	[illegible]
8.	M. Geethanjali	Civil	M. Geeth
9.	K. Gouthamy	EIE	K. Gouthamy
10	S. Rajendran	MECH	[illegible]
11	P. Sivakumar	" "	[illegible]
12	S.T. JESURAJAN	MECH	S.T.
13.	P. SIVAVIGNESH	E. T	P. S
14.	S. Mohamed Abdullah.	Agri	S. Mohamed Abdullah.
15.	M. Nandhini Devi	Agri	M. Nandhini
16	S Deepa	CHMI	S Deepa
17	K. Aravindhan.	Mechatronics.	K. Aravindhan.
18.	D. ASWINI	CHE	[illegible]
19.	S. Sivaranjani	BME	[illegible]

HINDUSTHAN COLLEGE OF ENGG & TECH

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Valley Campus, Pollachi Highway, Coimbatore – 641 032

HICET

Event Feedback

Department of Chemical Engineering

Name of the Event : Seminar on "Awareness and integration of Sustainable Practices in Non-Technical Operations"

Date of Event : 06.04.2024

Name (Reg No / ID No) : S. Sivaranjani

Department : Biomedical Engg

Year :

1. Rate your overall satisfaction with the Inauguration event?

(●) Excellent ( ) Good ( ) Average ( ) Poor

2. Rate the relevancy and insight of information provided?

(●) Excellent ( ) Good ( ) Average ( ) Poor

3. Rate the interactive and Q&A sessions?

(●) Excellent ( ) Good ( ) Average ( ) Poor

4. Rate the overall organization of the event, including logistics, scheduling, and communication?

(●) Excellent ( ) Good ( ) Average ( ) Poor

5. Evaluate the contributions of guest speaker?

(●) Excellent ( ) Good ( ) Average ( ) Poor

6. What are the takeaways from the event?

Pls Share, if any Suggestions

—

HINDUSTHAN COLLEGE OF ENGG & TECH. CBE

Signature

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution, Affiliated to Anna University, Chennai)

Valley Campus, Pollachi Highway, Coimbatore – 641 032

Event Feedback

Department of Chemical Engineering

Name of the Event : Seminar on "Awareness and integration of Sustainable Practices in Non-Technical Operations"

Date of Event : 06.04.2024

Name (Reg No / ID No) : M. Nadhini Devi

Department : Agricultural Engineering

Year :

1. Rate your overall satisfaction with the Inauguration event?

○ Excellent ✓ Good ○ Average ○ Poor

2. Rate the relevancy and insight of information provided?

✓ Excellent ○ Good ○ Average ○ Poor

3. Rate the interactive and Q&A sessions?

○ Excellent ✓ Good ○ Average ○ Poor

4. Rate the overall organization of the event, including logistics, scheduling, and communication?

○ Excellent ✓ Good ○ Average ○ Poor

5. Evaluate the contributions of guest speaker?

○ Excellent ✓ Good ○ Average ○ Poor

6. What are the takeaways from the event?

Pls Share, if any Suggestions

HINDUSTHAN COLLEGE OF ENGINEERING - CBE

M. Nadhini

Signature

Hindusthan
College of Engineering and Technology,
Valley Campus, Coimbatore 641 032.
HICET **www.hicet.ac.in**

Report for Workshop on "Crafting Research Proposals for Securing Project Funding" organized

Name of the Faculty	:	Mr Dineshkumar M / Ms Induja P
Department	:	Chemical Engineering — Designation: Assistant Professor
Name of the Event	:	**Workshop on "Crafting Research Proposals for Securing Project Funding"**
Level	:	International / National / State / Regional / Industry / University / College

Mapping with UN SDGs (Tick the relevant) : No poverty **(SDG 1)**, Zero hunger **(SDG 2)**, Good health and well-being **(SDG 3)**, Quality education **(SDG 4)**, Gender equality **(SDG 5)**, Clean water and sanitation **(SDG 6)**, Affordable and clean energy **(SDG 7)**, Decent work and economic growth **(SDG 8)**, Industry, innovation and infrastructure **(SDG 9)**, Reduced inequalities **(SDG 10)**, Sustainable cities and communities **(SDG 11)**, Responsible consumption and production **(SDG 12)**, Climate action **(SDG 13)**, Life below water **(SDG 14)**, Life on land **(SDG 15)**, Peace, justice, and strong institutions **(SDG 16)**, and Partnerships for the goals **(SDG 17)**.

Venue / Mode	:	Department of Chemical Engineering		
No. of Days	:	01	Dates :	17.05.2024
Funded by	:	UGC / CSIR / DST / DSIR / TNSCST / ICSSR /NCERT /INSA/		
No. of Participants	:	25	Registration charges (if any):	NIL

Name and Designation of Resource Person(s)

Dr Mohanraj Murugesan
Top2% Scientist in the field of Energy – Stanford University
Professor - Department of Mechanical Engineering,
Hindusthan College of Engineering and Technology, Coimbatore.

Outcome

- The workshop aims to empower faculty, and researchers with the essential skills and knowledge to develop persuasive research proposals.
- Participants will be able to identify suitable funding opportunities, understand the components of a strong proposal, and create detailed, compelling research plans and budgets.

Remarks and Feedback on the Event: Attached

Plan of Implementing in HiCET (if any)

- Faculty are motivated to collaborate with inter departmental proposals and asked to submit at least two proposals per academic year irrespective of funding agencies.
- Faculty are advised to seek any sort of help from the management.

Signature of the Faculty | **HoD** | **Principal**

PRINCIPAL
Hindusthan College Of Engineering & Technology
COIMBATORE 641 032.

Copy of the Event Brochure / Invitation:

Hindusthan

College of Engineering and Technology

An Autonomous Institution

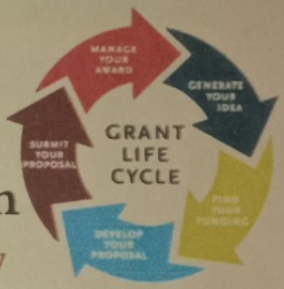
Valley Campus, Pollachi Highway, Coimbatore 641 032.

Department of Chemical Engineering

Organizes Workshop on

Crafting Research Proposals for Securing Project Funding





Resource Person

Dr Mohanraj Murugesan

Top 2% Scientist in the Field of Energy
Stanford University, USA.
Professor
Department of Mechnaical Engineering, HiCET.

17.05.2024 | 10:00 IST

Department of Chemical Engineering

Patrons Dr K Karunakaran, CEO
Hindusthan Educational Institutions.
Dr J Jaya, Principal, HiCET

Convener Dr Seenuvasan M, Professor & Head

Co-ordinator

Mr Dineshkumar M
Assistant Professor

Ms Induja P
Assistant Professor

Cordially Invites you all

HINDUSTHAN COLLEGE OF ENGG & T.E. -CBE

Geo Tagged Photographs of Event – 2 Nos:





HINDUSTHAN COLLEGE OF ENGG & TECH · CBE · 32 ·

Signed Attendance Sheet: Attached

HindusthanCollege of Engineering and Technology, Valley Campus, Pollachi Highway,
Coimbatore 641 032.
www.hicet.ac.in

faculty

Attendance Report

Name of the Event : Crafting Research Proposals for Securing Project Funding

Date : 17.05.2024

Coordinator : Mr Dineshkumar M & Ms Induja P
Assistant Professor, Department of Chemical Engineering.

S. No	Participant Name	Identity	Signature
1.	K. Ramya	AP / Agri.	
2.	Dr. DHAYALAN V	AP / Agri	
3.	M. Kalaiselvi	AP / Agri.	
4.	T. Seerangurayar	AP / AGRI	
5.	Dr C. Rajaravi	AP / AGRI	
6.	J. Deepa	ASP / FT	
7.	Navaneetham R, AP/FT	AP / Food.	
8.	A. Shiveni Indumathi	AP / food.	
9.	Charan Adithya S	AP/FT	
10.	Dilleyu. I	AP/FT	
11.	Nivetha. T	AP/FT	T. Nivetha.
12.	K. Kiruthika	AP/BME	
13.	J. Shobha christila	AP/BME	
14.	Dr. T. Neelamegavan	ASP/BME	
15.	Dr. M. GANGA	ASP / BME	
16.	S. Nagul Dev	AP/CHEMICAL	
17.	Mr. Kalpana V P	AP / Chem.	
18.	SATHISH. J	AP/Chem	
19.			
20.			
21.			

HINDUSTHAN COLLEGE OF ENGG & TECH · CBE - 32

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Valley Campus, Pollachi Highway, Coimbatore – 641 032

HICET

Event Feedback

Department of Chemical Engineering

Name of the Event : Seminar on "Crafting Research Proposal for Securing Project Funding"

Date of Event : 17.05.2024

Name (Reg No / ID No) : S Shobha Christle

Department : BME

Year :

1. Rate your overall satisfaction with the Inauguration event?

○ Excellent ✓ Good ○ Average ○ Poor

2. Rate the relevancy and insight of information provided?

✓ Excellent ○ Good ○ Average ○ Poor

3. Rate the interactive and Q&A sessions?

○ Excellent ✓ Good ○ Average ○ Poor

4. Rate the overall organization of the event, including logistics, scheduling, and communication?

○ Excellent ✓ Good ○ Average ○ Poor

5. Evaluate the contributions of guest speaker?

○ Excellent ○ Good ✓ Average ○ Poor

6. What are the takeaways from the event?

NIL

Pls Share, if any Suggestions

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Signature

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Valley Campus, Pollachi Highway, Coimbatore – 641 032

Event Feedback

Department of Chemical Engineering

Name of the Event : Seminar on "Crafting Research Proposal for Securing Project Funding"

Date of Event : 17.05.2024

Name (Reg No / ID No) : Mrs. K. Kirthika

Department : AP | BME

Year : 2023-2024.

1. Rate your overall satisfaction with the Inauguration event?

○ Excellent ✓ Good ○ Average ○ Poor

2. Rate the relevancy and insight of information provided?

○ Excellent ✓ Good ○ Average ○ Poor

3. Rate the interactive and Q&A sessions?

✓ Excellent ○ Good ○ Average ○ Poor

4. Rate the overall organization of the event, including logistics, scheduling, and communication?

○ Excellent ✓ Good ○ Average ○ Poor

5. Evaluate the contributions of guest speaker?

○ Excellent ✓ Good ○ Average ○ Poor

6. What are the takeaways from the event? – Nil.

Pls Share, if any Suggestions

HINDUSTHAN COLLEGE OF ENGG & TECH - CBE - 32

Signature

Hindusthan
College of Engineering and Technology,
Valley Campus, Pollachi Highway, Coimbatore 641 032
www.hicet.ac.in

Report for Webinar Organized

Name of the Faculty :M.Karthikeyan	
Department : Mechatronics Engineering	Designation :Assistant Professor
Nature of the Event: Seminar ON "Technology in Enhancing Laboratory Efficiency and Safety"	
Category: College Level	
Title : "Technology in Enhancing Laboratory Efficiency and Safety"	
Venue /Mode : Hindusthan College of Engineering and Technology / Physical Mode	
No. of Days : 1	Date : 10/9/2023
Funded by : NIL	
No. of Participants :20	Registration charges (if any) : Free Registration
Name and Designation of Resource Person(s) : Dr.P.T.Saravanakumar, Professor and Head , Department of Mechatronics Engineering Mr.M.Karthikeyan, Assistant Professor, Department of Mechatronics Engineering	
Outcomes of the Event : i) This topic explores how modern tools, systems, and innovations contribute to safer practices and streamlined workflows in laboratory environments. ii) Able to maintain a laboratory without accident and Injuries	
Remarks and Feedback on the Event: • Beneficial to all Non-Teaching and Lab technicians	
Plan of Implementing in HiCET (if any) : • Implementing 5 S Concept in all the laboratory	

Signature of the Faculty | HOD | Principal

Image of the Event Brochure / Invitation	Photographs of Event – 2 Nos

Hindusthan
College of Engineering and Technology
An Autonomous Institution

Department of Mechatronics Engineering

Cordially invites all the Non- Teaching faculties

SEMINAR

on

TECHNOLOGY IN ENHANCING LABORATORY EFFICIENCY AND SAFETY

SPEAKER

DR.P.T.SARAVANAKUMAR

Professor and Head,
Department of Mechatronics Engineering

DATE: 10 SEPTEMBER, 2023 **TIME: 10.00 AM**

VENUE: MCT DEPT, HICET

HOD MCT	PRINCIPAL	CEO
Dr.P.T.Saravanakumar	Dr.J.Jaya	Dr.K.Karunakaran





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Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai
Coimbatore - 641 032

HICET

TÜVRheinland CERTIFIED

REQUEST FORM TO ORGANIZE AN EVENT

Name of the Faculty	G.THILAK		
Designation	ASSISTANT PROFESSOR		
Department	MECHATRONICS ENGINEERING		
Type of Event	SEMINAR on " PROFESSIONAL DEVELOPMENT AND ADMINISTRATIVE TRAINING"		
In Association With	-		
Category	Institute Level		
Title of the Event	Seminar on "Professional development and Administrative Training"		
No. of Participants Expected	70		
Venue	Ganga Hall		
No. of Days	1 day	**Date**	23 /01/2024 - Wednesday

Name and Designation of the Resource Person(s):

1. **Mr. Derrick Garr**
   Application development Manager,
   Accenture, Coimbatore
2. **Dr. R. Chandrasekhar Menon**
   Dean-Academics,
   Coimbatore Institute of Management
   and Technology, Coimbatore
3. **Mrs. Nidhya**
   Freelancer- Training and Development, Career Coach
4. **Mr. Krishnaprasad**
   CEO, Aadhi Foundation
   Coimbatore

Details of the Proposed Budget:
Seminar (One/Semester / Dept)Mgmt. Contribution. **Rs.10000/-**

Faculty In-charge **HoD**

Approved by

Principal

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST
HICET

Hindusthan
College of Engineering and Technology,
Valley Campus, Pollachi Highway, Coimbatore 641 032.
www.hicet.ac.in

Report for Event organized

Name of the Faculty: **G.THILAK**		
Department : **Mechatronics Engineering**		Designation: **Assistant Professor**
Name of the Event: Seminar on "Professional development and Administrative Training"		
Level : **College Level**		
Venue / Mode: **Physical mode – Hindusthan College of Engineering and Technology, Valley Campus.**		
No. of Days : 1- DAY		**Date** : 23 /01/2024 - Wednesday
Funded by : Management		
No. of Participants : 70		Registration charges (if any) : NIL
Faculties	Hindusthan college of Engineering students	

Objective:

- To instill professionalism among the faculty members
- To impart knowledge on information technology (ERP – SAP).
- To educate the changing dynamics of the role of faculties
- To impart the skill of work life balancing for the teaching professionals

Outcome :

- The faculties were able to identify their potentials in the teaching profession
- The faculties were able to enhance the the skill of work life balancing
- The faculties were able to gain knowledge on information technology (ERP – SAP).

Remarks and Feedback on the Event:

- Overall, it was a great program. All the faculty members appreciated the insights given by the speakers

Signature of the Faculty | HoD | Principal

Category: **Department**

Weather Event Brochure / Invitation Published in social media : Yes

Brouchure of the event :

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST
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HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE

A++ NAAC

DEPARTMENT OF MECHATRONICS ENGINEERING

with

INTERNAL QUALITY ASSURANCE CELL

ORGANIZES

SEMINAR
ON

PROFESSIONAL DEVELOPMENT AND ADMINISTRATIVE TRAINING

for faculty members



Mr.Derrick Garr
Delivery Manager/ Application development Manager. Accenture. Coimbatore

INFORMATION TECHNOLOGY (ERP - SAP) PROFESSIONAL DEVELOPMENT & ADMINISTRATIVE TRAINING FOR FACULTIES

09.45 AM TO 11.30 AM



Dr. R. Chandrasekhar Menon
Dean–Academics. Coimbatore Institute of Management and Technology. Coimbatore

THE CHANGING DYNAMICS OF THE ROLE OF FACULTIES

11.30 AM TO 01.30 PM



Mrs.Nidhya
Freelancer– Training and Development. Career Coach

PERSONALITY DEVELOPMENT AND PUBLIC SPEAKING

02.00 PM TO 3.30 PM



Mr.Krishnaprasad
CEO. Aadhi Foundation
Coimbatore

WORK LIFE BALANCE FOR TEACHING PROFESSIONALS

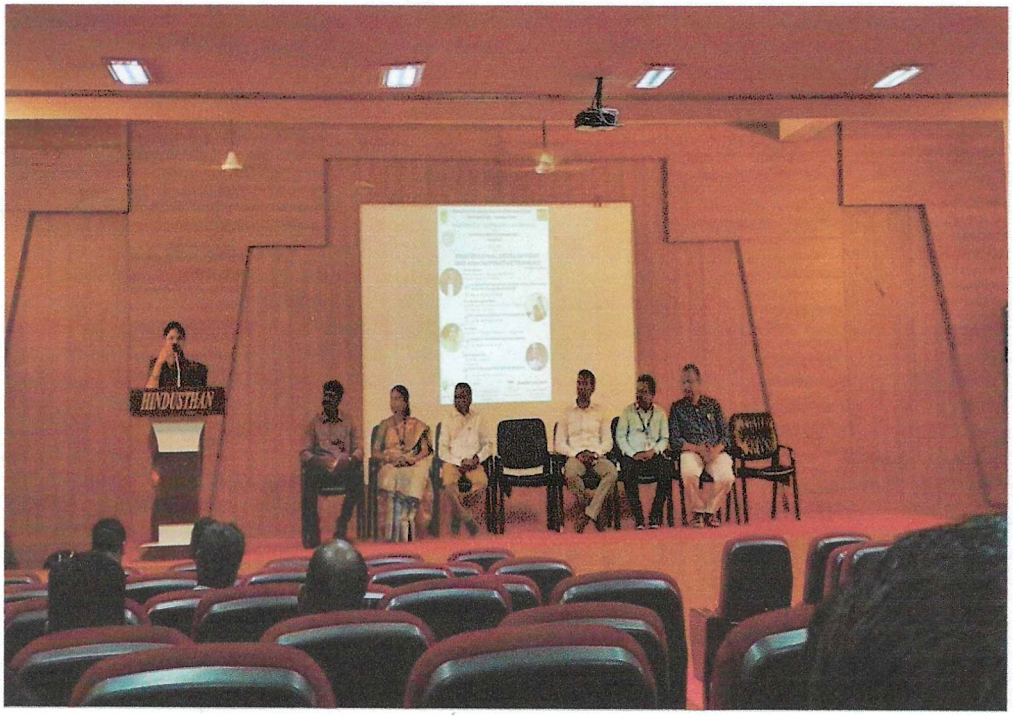
03.30 PM TO 4.30 PM

@ KURUNCHI HALL, HICET

JANUARY 23rd,2024

G.THILAK	Dr.P.T.SARAVANA KUMAR	Dr.J.JAYA	Dr..K.KARUNAKARAN
ASSISTANT PROFESSOR/MCT	PROFESSOR/HOD/MCT	PRINCIPAL/HICET	CEO/HINDUSTHAN
COORDINATOR	CONVENOR		INSTITUTIONS

Photographs of Event:





Photographs of Event:



HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY,
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with
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SEMINAR
ON
PROFESSIONAL DEVELOPMENT AND ADMINISTRATIVE TRAINING

22/1/24

PARTICIPANT LIST

Kindly depute faculty members to attend the prog.

23.01.2024

S.NO	NAME	DEPARTMENT	DESIGNATION	SIGNATURE
1.	Dr. A. Narendrakumar	ECE	AP	
2.	Mr. T. Anandaselvakarthik	ECE	AP.	
3.	Ms. N. Menakadevi	ECE	Assistant Professor	
4.	Ms. R. Vanitha	ECE	Assistant professor	
5.	Dr. A. Vijayalakshmi	ECE	ASP	
6.	Mr. T. Boobalan	ECE	AP	
7.	Ms. M. Gayathri	ECE	Assistant professor	
8.	Ms. K. Kavitha	ECE	Assistant Professor	
9.	Ms. S. karpagam	ECE	Assistant professor	
10.	Ms. Santhiya Christie. J	ECE	Assistant Professor	22/01/24
11.	Mr. M.G. Gnanavel	S & H	Assistant Professor	
12.	Mrs. Lalitha	S & H	Asst. prof	
13.	Mrs. Fathima	S & H	Asst. Prof.	
14.	Mr. Murusamy	S & H	Asst Prof	
15.	Mrs. Padma			
16.	Mrs. S. Sangeetha			
17.	Mrs. Juliet Josphine	S & H	Professor	
18.	Mrs. M. Sangeetha			

* Declaration by the participants:
Yes, I assure that I will attend ALL the SESSIONS tomorrow without fail

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PROFESSIONAL DEVELOPMENT AND ADMINISTRATIVE TRAINING

PARTICIPANT LIST

23.01.2024

S.NO	NAME	DEPARTMENT	DESIGNATION	SIGNATURE
19.	Amutha	IT	Assistant Prof.	
20.	Jency	IT		
21.	Karthik.S	IT	AP/IT	
22.	Praveen Kumar	IT	AP	
23.	Swaminathan	IT.		
24.	Riyadharshini.TR	IT	AP/IT	
25.	Patricia Nancy	Biomedical	AP	
26.	Nivetha	Biomedical	AP	
27.	Dr. M. Amutha	AIML	Professor	
28.	Dr. S. Kousalya devi	AIML	Professor	
29.	Mr. D. Mahesh	CSE	Assistant Prof.	
30.	Ms. S. Sathiya	CSE	Asst. Professor	
31.	Ms. N. Priya	CSE	Asst. Professor	
32.	Ms. K. Karthikayani	CSE	Asst. Professor	
33.	Mr. M. Ravikumar	CSE	Asst. Professor	
34.	Ms. V. Devi	AIML	Asst. Professor	
35.	Mr. K. Lakshmanan	CSE	Asst. Professor	
36.	Dr. A. Priya	CSE	Asst. Professor	

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ON
PROFESSIONAL DEVELOPMENT AND ADMINISTRATIVE TRAINING

PARTICIPANT LIST

23.01.2024

S.NO	NAME	DEPARTMENT	DESIGNATION	SIGNATURE
37.	Ms. Gayathri			
38.	Ms Ramya			
39.	Mr. Darshan			
40.	Mrs. Mahalakshmi.B	S&H	AP	
41.	Mrs. Nithya	S&H	AP	
42.	Mrs. Sujatha			
43.	Mrs. Anitha			
44.	Mrs. Gomathi	S&H	AP	
45.	Mrs. Vidhya	S&H	ASP	
46.	Mr. Balamurali	S&H	Assoc Prof	
47.	Mrs. S. Girija	S&H	ASP	
48.	Mrs. T. SOUMYA	S&H	Research scholar (FT)	
49.	Mrs. Seifunnisha. O	S&H	AP	
50.	Dr. [illegible]	Mech	Professor	
51.	Mr. S. Ram Kumar.	Mech.	AP	
52.	Dr. L. Karthick	Mech	AP	
53.	Dr. C. SRIHARESH	Mech	[illegible]	
54.	Dr. M. Mohanraj	Mech	AP/MECH	

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PARTICIPANT LIST

23.01.2024

S.NO	NAME	DEPARTMENT	DESIGNATION	SIGNATURE
55.	Dr. C. Nithyanandan	Mech	AP	
56.	Dr. D. Prabhu	Mech	AP	
57.	Mr. Dinesh	Civil	AP	
58.	Mr. Senthil Kumar	Civil	AP	
59.	Mr. G. Thilak	MCT	A/P	
60.	Mr. T. Prabu	MCT	AP	
61.	Mr. M. Karthikeyan	MCT	AP	
62.	Mr. MM Jegan	MCT	AP	
63.	Mr. Naveen Kumar	MCT	AP	
64.	Mr. K. Kesavaraj	MCT	AP	
65.	Mr. S. Manoj Kumar	MCT	AP	
66.	Dr. R. Madhusudhanan	MCT	AP	
67.	Dr. Pradeep Johnson	MCT	AP	
68.	Dr. T. Vandarkuzhali	MCT	AP	
69.	Dr. S. Santhosh Kumar	MCT	AP	
70.	R. V. Ravikumar	MCT	AP	
71.				
72.				

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ON
PROFESSIONAL DEVELOPMENT AND ADMINISTRATIVE TRAINING

ATTENDANCE - FORENOON

23.01.2024

S.NO	NAME	DEPARTMENT/ DESIGNATION	EMAIL ID	SIGNATURE
1.	Mrs. S. LALITHA	S&H (Maths) Asst. Prof	lalitha.maths@hicet.ac.in	
2.	Mr. Gayathri S	S&H (English) Assistant Prof	gayathri.eng@hicet.ac.in	
3.	M. Bangeetha	S&H (English) Asst. Professor	gangeetha.eng@hicet.ac.in	
4.	N. PRIYA	CSE/AP	priya.cse@hicet.ac.in	
5.	Dr. M. Amutha	AIML / ASP	amutha.cse@hicet.ac.in	
6.	Mrs. T. SOUMYA	S&H (Research Scholar PT)	soumya.phy@hicet.ac.in	
7.	Dr. T. Vandarkuzhali	ASP / Mechatronics	vandarkuzhali.met@hicet.ac.in	
8.	Dr. J. Juliet Josephine Joy	Physics / Professor	juliet josephine joy.phy@hicet.ac.in	
9.	Dr. A. Vijayalaxshmi	ECE / ASP	vijayalaxshmi-a.ece@hicet.ac.in	
10.	Dr. S. Padma	S&H (Maths) / AP	padma.maths@hicet.ac.in	
11.	Mrs. A. Gomathi	S&H (Maths) / AP	gomathi.maths@hicet.ac.in	
12.	Dr. S. Girija	S&H (Maths) ASP	girijas.maths@hicet.ac.in	
13.	Ms. C. JENCY	IT / AP	jency.it@hicet.ac.in	
14.	MS. T.R. PRIYADHARSHINI	IT / AP	Priyadharshini.it@hicet.ac.in	
15.	Ms. R. AMUDHA	IT / AP	amudha.it@hicet.ac.in	
16.	R. VANITHA	AP / ECE	vanitha.ece@hicet.ac.in	
17.	M. Gayathiri	AP/ECE	gayathiri.ece@hicet.ac.in	
18.	K. KAVITHA	AP / ECE	kavitha.ece@hicet.ac.in	

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ON
PROFESSIONAL DEVELOPMENT AND ADMINISTRATIVE TRAINING

ATTENDANCE - FORENOON

23.01.2024

S.NO	NAME	DEPARTMENT	DESIGNATION	SIGNATU
19.	MENAKADEVI. N	ECE	AP	
20.	Santhiya Christie. J	ECE	AP	
21.	Ranuja. S.N.	S&H [English]	AP	
22.	N. NITHIYA	S&H [PHYSICS]	AP	
23.	Dr. L. VIDHYA	S&H [CHEMISTRY]	ASP	
24.	B. MAHALAKSHMI	S&H [PHYSICS]	AP	
25.	S. Sangeetha	S&H [English]	AP	
26.	Dr. K. ANITHA	S&H [MATHS]	AP	
27.	Dr. B. SUJATHA	S&H [MATHS]	AP	
28.	S. Sathya	AP / CSE	AP	
29.	R. Gayathri	CSE	AP	
30.	Dr. R. MADHUSUDHANAN	ASP / MCTS	ASP	
31.	S. MANOJ KUMAR	AP / MCTS	AP	
32.	BALAMURALI	ASP / PHYSICS	Assoc Prof	
33.	Mr. M. G. GNANAVEL	AP / Maths (S&H)	AP	
34.	T. Karthikeyan	AP / Mechatronics	AP	
35.	Dr. Pradeep Johnson	ASP / MCT	ASP	
36.	S. KARTHIK	AP / IT	AP	

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PROFESSIONAL DEVELOPMENT AND ADMINISTRATIVE TRAINING

ATTENDANCE - FORENOON

23.01.2024

S.NO	NAME	DEPARTMENT	DESIGNATION	SIGNATUR
37.	G. SWAMINATHAN	IT	AP	
38.	Lakshmanan M	CSE	AP	
39.	G. Prabhu	Auto	AP	
40.	R S PRAKASH	Auto	AP	
41.	Mr. V. Suresh	Civil	Assistant Professor	
42.	M. Dinesh Kumar	Civil	AP	
43.	S. RAGU	AME	AP	
44.	KATHIRVEL. K.	AERO	AP	
45.	R. SARAVANAN	AERO	AP	
46.	K. Munusamy	Mathematics	AP	
47.	S. Dhanalakshmi	English	AP	
48.	T. Anandakumar	ECE	AP	
49.	Dr. P. Nakkeeran	Aeronautical	Professor	
50.	M. RAVIKUMAR	CSE	AP	
51.	Lakshmanan A	CSE	AP	
52.	K. KARTHIKEYAN	CSE	AP	
53.	D. Magesh	CSE	AP	D. Magesh
54.	P. Naveen Kumar	MCT	AP	

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PROFESSIONAL DEVELOPMENT AND ADMINISTRATIVE TRAINING

ATTENDANCE - FORENOON

23.01.2024

S.NO	NAME	DEPARTMENT	DESIGNATION	SIGNATU
55.	R.V. RAMARAJAN	MCT	AP	R.V.
56.	S. Manojkumar	MCT	AP	
57.	Dr. A. Narendrakumar	ECE	AP	
58.				
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HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY,
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with
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ON
PROFESSIONAL DEVELOPMENT AND ADMINISTRATIVE TRAINING

ATTENDANCE - AFTERNOON

23.01.2024

S.NO	NAME	DEPARTMENT	DESIGNATION	SIGNATUR
19.	MENAKADEVI.N	AP/ECE	menakadevi.ece@hicet.ac.in	
20.	R. AMUDHA	AP/IT	amudha.it@hicet.ac.in	
21.	T.R. Priyadharshini	AP/IT	Priyadhrshinitt@gmail.com	
22.	C. JENCY	AP/IT	jency.it@hicet.ac.in	
23.	Mrs. T. SOUMYA	S&H-Research Scholar(FT)	soumya.phy@hicet.ac.in	
24.	Dr. A. Narendrakumar	AP/BME		
25.	T. Anandasankaran	AP/ECE	~~anandaselvan~~	
26.	P. Saravanan	AP/ABRO	ABRO/AP	
27.	kathavel	ABRO	AP	
28.	M. Dinesh kumar	Civil	AP	
29.	V. Suresh	Civil	AP	
30.	Le Munusamy	Maths	AP	
31.	S. Dharshan	English	AP	
32.	R. V. RAJARAJAN	MCT	AP	
33.	P. Naveenkumar	MCT	AP	
34.	Dr. P.N. KARTHIKEYAN	AERONAUTICAL	Professor	
35.	Mr. M, G. Gnanavel	S&H / Maths	AP	
36.	G. Saminathan	AP/ST	AP	

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY,
COIMBATORE
DEPARTMENT OF MECHATRONICS ENGINEERING
with
INTERNAL QUALITY ASSURANCE CELL
SEMINAR
ON
PROFESSIONAL DEVELOPMENT AND ADMINISTRATIVE TRAINING

ATTENDANCE - AFTERNOON

23.01.2024

S.NO	NAME	DEPARTMENT/ DESIGNATION	EMAIL ID	SIGNATURE
1.	Dr. A. VIJAYALAKSHMI	ECE / ASP	vijayalakshmi_a.ece@hicet.ac.in	
2.	Mrs. S. LALITHA	S&H Maths (A.P	lalitha.maths@hicet.ac.in	
3.	Santhiya Christie. J	ECE	santhiyachristie.ece@hicet.ac.in	
4.	N. NITHIYA	S&H (PHYSICS)	Sainekaoedam	
5.	Dr S BALAMURALI	S&H (PHYSICS)	balamurali.phy@hicet.ac.in	
6.	Dr. L. Vidhya	S&H (Physics)	vidhya.phy@hicet.ac.in	
7.	B. Mahalakshmi	S&H (Physics)	Mahalakshmi.Phy@hicet.ac.in	
8.	Dr. S. GIRIJA	S&H [Maths] Asp	girijas.maths@hicet.ac.in	
9.	S. Gayathri	S&H (Engg) AP	gayathri.eng@hicet.ac.in	
10.	S. N. Ramya	S&H (Eng) AP	ramya.eng@hicet.ac.in	
11.	S. Sangeetha	S&H (Eng) AP	Sangeetha_S.eng@Hicet.ac.in	
12.	Dr. J. Juliet Josephine Jey	S&H (Phy) Prof	julietjosephinejey.phy@hicet.ac.in	
13.	A. Gomathi	S&H (Maths) / AP	gomathi.maths@hicet.ac.in	
14.	Dr. S. Padma	S&H (Maths) / AP	padma.maths@hicet.ac.in	
15.	Dr. B. Sujatha	S&H (Maths) / AP	sujatha.maths@hicet.ac.in	
16.	K. Kavitha	ECE / AP	kavitha.ece@hicet.ac.in	
17.	M. Gayathiri	ECE / AP	gayathiri.ece@hicet.ac.in	
18.	R. Vanitha	ECE / AP	vanitha.ece@hicet.ac.in	

FEEDBACK - SEMINAR - " PROFESSIONAL DEVELOPMENT AND ADMINISTRATIVE TRAINING"

MECHATRONICS - INTERNAL QULAITY ASSURANCE CELL

PROFESSIONAL DEVELOPEMENT AND ADMINSTRATIVE TRAINING for faculty members

- **Mr.Derrick Garr**

Delivery Manager/Application development Manager. Accenture. Coimbatore

INFORMATION TECHNOLOGY (ERP-SAP PROFESSIONAL DEVELOPMENT & ADMINISTRATIVE TRAINING FOR FACULTIES

Timing : 09.45 AM TO 11.30 AM

The respondent's email (**amudha.it@hicet.ac.in**) was recorded on submission of this form.

NAME *

R.Amudha

DEPARTMENT *

INFORMATION TECHNOLOGY

MOBILE NUMBER *

9629345744

Is the seminar met your expectations ? *

- [x] YES
- [ ] NO

Is the content was helpful to you ? *
YES

1	2	3	4	5
○	○	○	○	◉

Did the seminar effectively cover the intended topic, and were the key points clearly communicated *

- (●) YES
- ( ) NO

Did the speaker engage the audience effectively, and were the interactive elements, if any, beneficial? *

- (●) YES
- ( ) NO

How would you rate the overall effectiveness of the visual aids or presentation materials used during the seminar? *

1	2	3	4	5
○	○	○	○	◉

SESSION II

Dr. R. Chandrasekhar Menon
Dean-Academics, Coimbatore Institute of Management and Technology, Coimbatore
TOPIC

The changing dynamics of the role of faculties

Is the seminar met your expectations ? *

- ◉ YES
- ○ NO

Is the content was helpful to you ? *

- ◉ YES
- ○ NO

Did the seminar effectively cover the intended topic, and were the key points clearly communicated *

- ☑ YES
- ☐ NO

Did the speaker engage the audience effectively, and were the interactive elements, if any, beneficial? *

- (●) YES
- ( ) NO

How would you rate the overall effectiveness of the visual aids or presentation materials used during the seminar? *

1	2	3	4	5
( )	( )	( )	( )	(●)

SESSION III

Mrs.Nidhya
Freelancer- Training and Development, Career Coach
TOPIC

PERSONALITY DEVELOPMENT AND PUBLIC SPEAKING

Is the seminar met your expectations ? *

- (●) YES
- ( ) NO

Is the content was helpful to you ? *

- (●) YES
- ( ) NO

Did the seminar effectively cover the intended topic, and were the key points clearly communicated *

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- (●) YES
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How would you rate the overall effectiveness of the visual aids or presentation materials used during the seminar? *

1	2	3	4	5
( )	( )	( )	( )	(●)

SESSION IV

Mr.Krishnaprasad
CEO, Aadhi Foundation
Coimbatore

TOPIC
Work life balance for teaching professionals

Is the seminar met your expectations ? *

- (●) YES
- ( ) NO

Is the content was helpful to you ? *

- (●) YES
- ( ) NO

Did the seminar effectively cover the intended topic, and were the key points clearly communicated *

- (●) YES
- ( ) NO

Did the speaker engage the audience effectively, and were the interactive elements, if any, beneficial? *

- (●) YES
- ( ) NO

How would you rate the overall effectiveness of the visual aids or presentation materials used during the seminar? *

1	2	3	4	5
○	○	○	○	◉

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FEEDBACK - SEMINAR - " PROFESSIONAL DEVELOPMENT AND ADMINISTRATIVE TRAINING"

MECHATRONICS - INTERNAL QULAITY ASSURANCE CELL

PROFESSIONAL DEVELOPEMENT AND ADMINSTRATIVE TRAINING for faculty members

- **Mr.Derrick Garr**

Delivery Manager/Application development Manager. Accenture. Coimbatore

INFORMATION TECHNOLOGY (ERP-SAP PROFESSIONAL DEVELOPMENT & ADMINISTRATIVE TRAINING FOR FACULTIES

Timing : 09.45 AM TO 11.30 AM

The respondent's email (**vanitha.ece@hicet.ac.in**) was recorded on submission of this form.

NAME *

Ms.Vanitha R

DEPARTMENT *

Electronics and Communication Engineering

MOBILE NUMBER *

9976138839

Is the seminar met your expectations ? *

- [x] YES
- [ ] NO

Is the content was helpful to you ? *
YES

1	2	3	4	5
○	○	○	○	◉

Did the seminar effectively cover the intended topic, and were the key points clearly communicated *

- (●) YES
- ( ) NO

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○	○	○	○	◉

SESSION II

Dr. R. Chandrasekhar Menon
Dean-Academics, Coimbatore Institute of Management and Technology, Coimbatore
TOPIC

The changing dynamics of the role of faculties

Is the seminar met your expectations ? *

- ◉ YES
- ○ NO

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1	2	3	4	5
( )	( )	( )	( )	(●)

SESSION III

Mrs.Nidhya
Freelancer- Training and Development, Career Coach
TOPIC

PERSONALITY DEVELOPMENT AND PUBLIC SPEAKING

Is the seminar met your expectations ? *

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SESSION IV

Mr.Krishnaprasad
CEO, Aadhi Foundation
Coimbatore

TOPIC
Work life balance for teaching professionals

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○	○	○	○	◉

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FEEDBACK - SEMINAR - " PROFESSIONAL DEVELOPMENT AND ADMINISTRATIVE TRAINING"

MECHATRONICS - INTERNAL QULAITY ASSURANCE CELL

PROFESSIONAL DEVELOPEMENT AND ADMINSTRATIVE TRAINING for faculty members

- **Mr.Derrick Garr**

Delivery Manager/Application development Manager. Accenture. Coimbatore

INFORMATION TECHNOLOGY (ERP-SAP PROFESSIONAL DEVELOPMENT & ADMINISTRATIVE TRAINING FOR FACULTIES

Timing : 09.45 AM TO 11.30 AM

The respondent's email (**prakash.auto@hicet.ac.in**) was recorded on submission of this form.

NAME *

PRAKASH R S

DEPARTMENT *

AUTOMOBILE ENGINEERING

MOBILE NUMBER *

98943 64073

Is the seminar met your expectations ? *

- [x] YES
- [ ] NO

Is the content was helpful to you ? *
YES

1	2	3	4	5
○	○	○	○	◉

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○	○	○	○	◉

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Dean-Academics, Coimbatore Institute of Management and Technology, Coimbatore
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( )	( )	( )	( )	(●)

SESSION III

Mrs.Nidhya
Freelancer- Training and Development, Career Coach
TOPIC

PERSONALITY DEVELOPMENT AND PUBLIC SPEAKING

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( )	( )	( )	(●)	( )

SESSION IV

Mr.Krishnaprasad
CEO, Aadhi Foundation
Coimbatore

TOPIC
Work life balance for teaching professionals

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1	2	3	4	5
○	○	○	○	◉

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Google Forms

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST
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Hindusthan
College of Engineering and Technology,
Valley Campus, Pollachi Highway, Coimbatore 641 032.
www.hicet.ac.in

INSTITUTION'S INNOVATION COUNCIL (Ministry of HRD Initiative)

Report for Event organized

Name of the Faculty: **Dr.T.VANDARKUZHALI**		
Department : **Mechatronics Engineering**	Designation :**Associate Professor**	
Name of the Event: **"Safety measures in Electrical"**		
Level : **College Level**		
Venue / Mode: **physical mode – Hindusthan College of Engineering and Technology, Valley Campus.**		
No. of Days : 1- DAY	**Date** : 11 /10/2023 - Friday (11.30 a m to 12.30pm)	
Funded by : **Nil**		
No. of Participants :		Registration charges (if any) :Nil
Faculties & students	+ 2	
Objective:		

Implement proactive controls across the spectrum of expected hazards. Educate the lab population about electrical hazards.

Outcome :

Without proper electrical safety protocols, the consequences could be catastrophic, such as death, severe electrical burns, and equipment/facility damage. An effective electrical safety program requires regular maintenance of electrical systems, providing personal protective equipment to employees, and incorporating

Remarks and Feedback on the Event:

Keep electrical devices and outlets away from water to prevent shock. Water and electricity don't mix well. To follow electrical safety rules, keep electrical equipment dry and away from water prevents damage to appliances and can protect against personal injury and electrocution.

Exactly, the key success for entrepreneurship is not only the experience of entrepreneur, it include knowledge, Leadership, Communication, Ability to learn, Opportunities, and especially creativity and innovation. All successful entrepreneurs, start out

Plan of Implementing in HiCET (if any) : YES

1.Dr.T.VANDARKUZHALI

2.P.KARTHICK

Signature of the Faculty HoD Principal

Category: **IIC – Driven Activity**
Weather Event Brochure / Invitation Published in Social Media : Yes
Brouchure of the event :

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST
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HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution, Affiliated to Anna University, Chennai
Approved by AICTE, New Delhi & Accredited by NAAC with 'A' Grade)
Valley Campus, Pollachi Highways, Coimbatore, Tamilnadu.

DEPARTMENT OF MECHATRONICS ENGINEERING

ONE DAY SEMINAR

ON

"SAFETY MEASURES IN ELECTRICAL"



P.RAVI KUMAR

PROPERITOR - BLACKSMITH ENTERPRISES (ELECTRICAL TRADING)

DATE; 11.10.2023

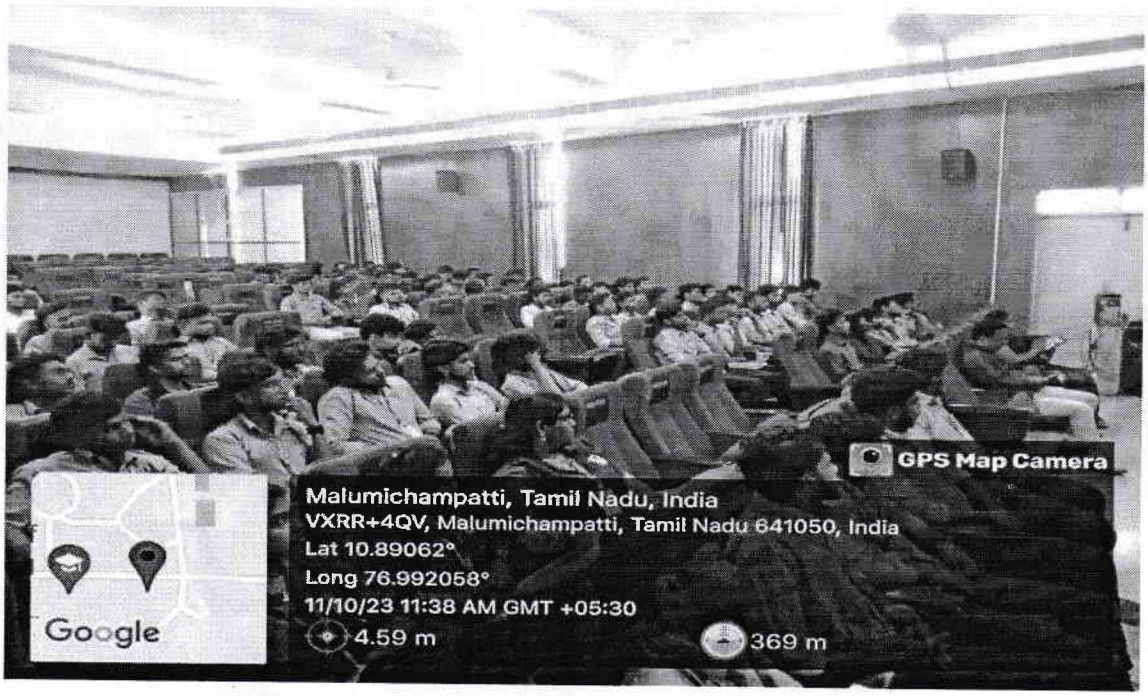
TIME: 11.30 AM - 12.30 PM

VENUE: GANGA HALL (CSE SEMIAR HALL)

CO-ORDINATOR	CONVENER	PRINCIPAL	CEO
Dr.T.Vandarkuzhali /ASP / MCT Mr.P.Karthik AP / MCT	Dr.P.T.Saravanakumar Professor & Head MCT	Dr.J.Jaya	Dr.K.Karunakaran

HINDUSTHAN COLLEGE OF ENGG & TECH

Photographs of Event:





HINDUSTHAN COLLEGE OF ENGG & TECH

Hindusthan College of Engineering and Technology,Coimbatore.

Department of Mechatronics Engineering,

Attendance sheet for Seminar on the Tittle of Safety Measures in Electrical

DATE: AN

S.Num	Name Of students	Department	Signature
51	MOHAMMED SABIK .S	Mechatronics -B . 3rd year	
52	Vasanth.H.S.	MCT-B 3rd year	
53	M.YOGESH	MCT-B 3rd year	
54	B. Surendhiran	MCT-B 3rd year	
55	V. Sakthivel	MCT-B 3rd year	
56	Vignesh.A	MCT-B 3rd year	
57	K. Mohit	MCT-B 3rd yea	
58	R.NAVEEN	MCT-B 3rd yr	
59	R. Sanjai Raj	MCT-B 3rd year	
60	S Venkatesh	MCT-B 3rd year	
61	K. Sabtha Sriram	MCT-B 3rd year	
62	J. Praveen	MCT-B 3rd year	
63	U Rahmathullah	MCT-B 3rd year	
64	K.M. Mohamed Aslam	MCT-A 2nd year	
65	Mohammed Bilal Iqbal	MCT-A 2nd year	
66	MOHAMMED ANFAL M.S	MCT-A 2nd year	
67	mohammed IRFAN A.S	MCT-A 2nd year	
68	M. manoj kumar	MCT-A 2nd year	
69	Ajoas Jonson	MCT-A 2nd year	
70	Aiyarnath.A.R	MCT-A 2nd year	
71	Gowtham.J	MCT-A 2nd year	
72	Kubesh.MS	MCT-A 2nd year	
73	S.Derakumar	MCT-A 2nd year	
74	D. Harish	MCT-A 2nd year	
75	A.Arun Prakash	MCT-A 2nd year	
76	K. ARASH	MCT-A 2nd year	
77	Joseph Immanuvel.S	MCT-A 2nd year	
78	AKASH MANI.N	MCT-A 2nd year	
79	CHANDRU.	MCT-A 2nd year	
80	ASWIN	MCT-A 2nd year	
81	Alagesan A	" "	
82	Ram Prakash.P	MCT-A 2nd year	
83	Mauleeshwaran.S	MCT-A 2nd year	
84	Abdu Rahman	MCT-A 2nd year	
85	Dhinesha	MCT-A 2nd year	
86	Kavithika Priya.P	MCT-A 2nd year	
87	Deepak Raj	MCT-A 2nd year	
88	Dharsan Pandian.K	MCT-A 2nd year	
89	Deepesh.K.	MCT-A 2nd year	
90	Ajay.D	MCT-A 2nd year	
91	Kaliyamoorthy.T	MCT-A 2nd year	
92	AISWAR.M.	MCT-A 2nd year	
93	AKASH.R.	MCT-A 2nd year	
94	KHALID JEFRIN.D	MCT-A 2nd year	
95	GANESH KUMAR.K	MCT-A 2nd year	
96	MOHAMED EMATH.U	MCT-A 2nd year	
97	Deepak arun Kumar	MCT-A 2nd year	
98	Kulothungan	MCT-A 2nd year	
99	M. Jayachandran	MCT-A 2nd year	
100	K Jayanthanan	MCT-A 2nd year	

Hindusthan College of Engineering and Technology,Coimbatore.

Department of Mechatronics Engineering,

Attendance sheet for Seminar on the Tittle of Safety measures in Electrical

DATE: FN

S.Num	Name Of students	Department	Signature
1	Mathu Kumar . S	MCT-B-III	
2	Inshath Ahamed.S	MCT-B-III	
3	S. Sivaraman	MCT-B-III	
4	Naveen.S	MCT-B-III	
5	Steve Mathew John	MCT-B-III	
6	Sufyan Ahmed	MCT-B-III	
7	GOVASEKARAN. G	MCT-B-III	
8	Karikalacholan J	MCT-A III	
9	Dinesh L. J.	MCT-A-III	
10	Manoj M	MCT-A-III	
11	B. Abarajeivam	MCT-A-III	
12	S. Nithesh Kumar	MCT-A-III	
13	A. Hariprasath.	MCT-A-III	
14	P. Barani	MCT-A III	
15	CHANTHOSH	MCT-A III	
16	T. Jai Saravana	MCT-A III	
17	L. Hari Prasanth	MCT-A-III	
18	H. Mohamed Harun	MCT-A-III	
19	J. Arabath	MCT A-III	
20	A. Jeyasundaram	MCT-A-III	
21	B. Madhana Vignesh	MCT-A III	
22	N. Bala	MCT-A III	
23	Aravindh. P	MCT-A III	
24	Kavyaveen. M	MCT-A III	
25	Pradeep. G	MCT-A III	
26	A.R Kamala Ganesh	MCT-A III	
27	K. Poojith kumar	MCT-A III	
28	P. Jeeva	MCT-A III	
29	A.P. Anogha Prasanth	MCT-A III	
30	R. REEGAN	MCT-A III	
31	Mohammed Shaheer. T	MCT-A III	
32	Gautham S Kanath	MCT-A-III	
33	Ashiq Hamdas. P.V	MCT-A-III	
34	Jeevan P. Hariharan	MCT-A-III	
35	Abhijith K.T	MCT-A-III	
36	Arjun prakash	MCT-A-III	
37	Kirthil. P	MCT-A-III	
38	Kishkinath VS	MCT-A-III	
39	Bino Biju	MCT-A-III	
40	Akash. A. S	MCT-A III	
41	Aswin krishna	MCT-A III	
42	Rollin Robert	MCT-B III	
43	Mohamed Rafiq M.M	MCT-B III	
44	Sri yashwin A.C	MCT-B III	
45	Sri Surya prasanth. S	MCT-B-III	
46	Shree Krishnaa. N	MCT-B-III	
47	Ragesh. A	MCT-B-III	
48	K. Vijayaraj	MCT-B-III	
49	T. Venkateshan	MCT-B-III	
50	Rahul-P-J	MCT-B III	

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST

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INSTITUTION'S INNOVATION COUNCIL (Ministry of HRD Initiative)

Report for Event organized

Name of the Faculty: **Dr..T.VANDARKUZHALI**		
Department : **Mechatronics Engineering**		Designation : **Associate Professor**
Name of the Event: **" Experience is the key to successful entrephreneurship "**		
Level : **College Level**		
Venue / Mode: **GANGA HALL physical mode – Hindusthan College of Engineering and Technology, Valley Campus.**		
No. of Days : 1- DAY		**Date** : 19 /09/2023 - Friday (11.00 a m to 01.00pm)
Funded by : **Nil**		
No. of Participants :		Registration charges (if any) :Nil
Faculties & students	100 + 2	
Objective:		

Our country is witnessing an excellent growth in the start-up ecosystem with the creation of new opportunities and markets for entrepreneurs. It is desirable to keep up this pace by training the young generation and building capacity with all the skills of an entrepreneur. At present, a gap exists between what is desirable and the current state of learning outcomes which needs to be bridged by undertaking major reforms in the education system.

Outcome :

All the guiding principles mentioned in the policy like stage wise integration, innovative pedagogies, blended teaching, experiential learning of students, upskilling opportunities for students. To enhance the quality of education in schools, it should be implemented soon.

Remarks and Feedback on the Event:

To Make meaningful contributions to local community through formal and sustained extension programs for school students community.

Plan of Implementing in HiCET (if any) : YES

1. Dr. T. Vandakkizhali
2. P. Karthick

Signature of the Faculty | HoD | Principal

Category: **IIC – Driven Activity**

Weather Event Brochure / Invitation Published in Social Media : Yes

Brouchure of the event :

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST

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INSTITUTION'S INNOVATION COUNCIL

(IIC - Self Driven Activity)

DEPARTMENT OF MECHATRONICS ENGINEERING

in Association With

ENTREPRENEURSHIP DEVELOPMENT CELL

Cordially invites for

ONE DAY SEMINAR

ON

"EXPERIENCE IS THE KEY TO SUCCESSFUL ENTREPRENEURSHIP"



S. DAVID. MA. MBA.

DIRECTOR - VIMAL ASSOCIATES
CEO - VINSON HOME FASHIONS
MANAGING PARTNER - LAKSHMI FIBRES
MANAGING PARTNER - ARAV TRADING CORPORATION

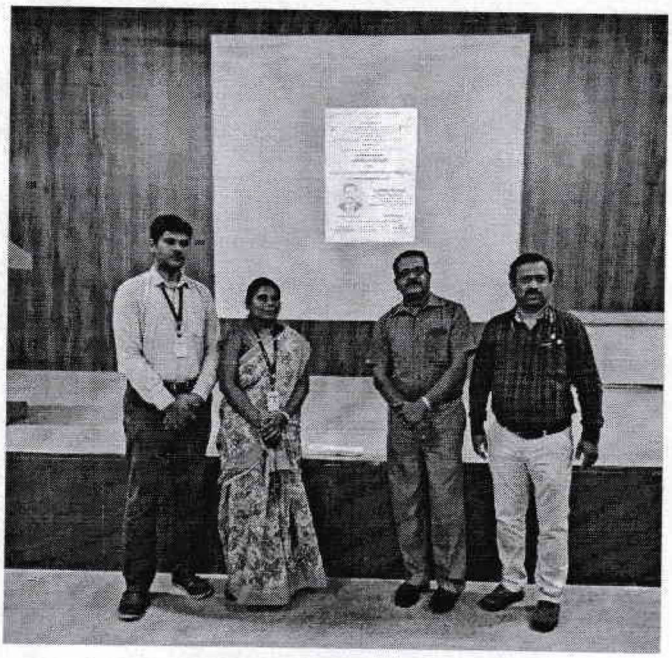
DATE ; 19.09.2023 ***TIME: 2.30 pm***

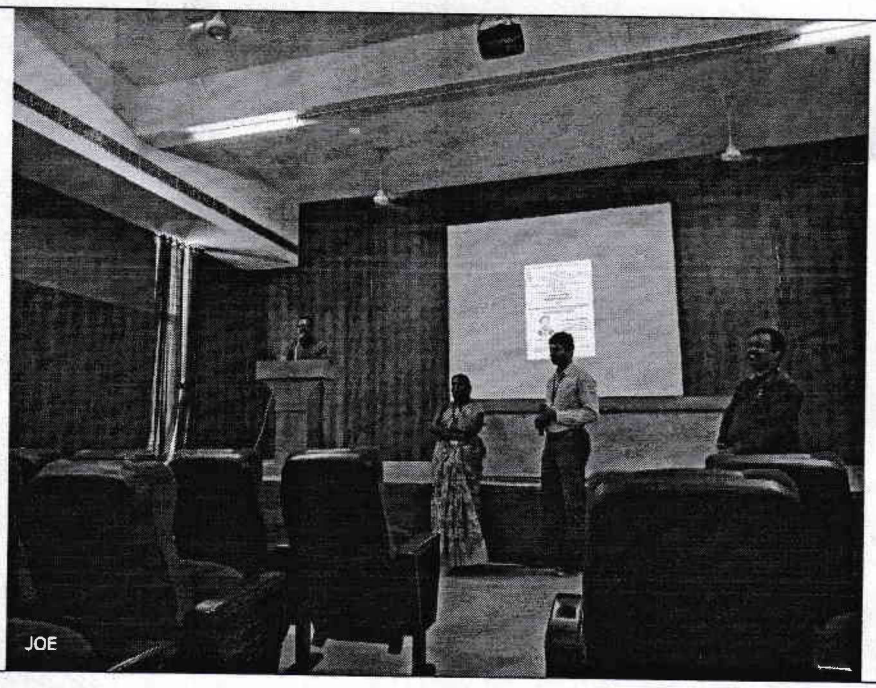
VENUE: GANGA HALL (CSE SEMIAR HALL)

CO-ORDINATOR	CONVENER	PRINCIPAL	CEO
Dr.T.Vandarkuzhali /ASP / MCT Mr.P.Karthik AP / MCT	Dr.P.T.Saravanakumar Professor & Head MCT	Dr.J.Jaya	Dr.K.Karunakaran

HINDUSTHAN COLLEGE OF ENGG & TECH - CSE - 32

Photographs of Event:





HINDUSTHAN COLLEGE OF ENGG & TECH

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST

HICET

Hindusthan College of Engineering and Technology

Valley Campus, Pollachi Highway,

Coimbatore 641 032.

EDII-TN Entrepreneurship

INSTITUTION'S INNOVATION COUNCIL (Ministry of Education Initiative)

(IIC - Self Driven Activity)

CERTIFICATE OF PARTICIPATION

This is to certify that

has attended the SEMINAR ON " EXPERIENCE IS THE KEY TO SUCCESSFUL ENTREPRENEURSHIP" held on 19/09/2023 Organized by Department of Mechatronics Engineering

Co-ordinator
Dr.T.Vandarkuzhali /ASP / MCT

Co-ordinator
(Mr.P.KARTHIK AP/MCT)

Convener
Head of the Departmennt
(Dr.P.T.Saravanakumar)

HINDUSTHAN COLLEGE OF ENGG. & TECH.

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

HICET *Valley Campus, Pollachi Highway, Coimbatore 641 032.*

DEPARTMENT OF MECHATRONICS ENGINEERING

SEMINAR PARTICIPANT FEEDBACK FORM

➢**NAME OF THE SEMINAR** : ***"EXPERIENCE IS THE KEY TO SUCCESSFUL ENTREPRENEURSHIP"***

➢**NAME OF THE STUDENT** : S. Sudharsan

➢**REG.NO** : 20109067

➢**DEPARTMENT/ YEAR/SEC** : Mechatronics / IV - B

➢**DATE** : 19.09.2023

1. **Was the entrepreneurial seminar useful?**
   - ➲ 1 - Very Low
   - ➲ 2 - Low
   - ➲ 3 - Moderate
   - ➲ 4 - Good
   - ➲ 5 - Very Good
2. **Was the entrepreneurial seminar informative?**
   - ➲ 1 - Very Low
   - ➲ 2 - Low
   - ➲ 3 - Moderate
   - ➲ 4 - Good
   - ➲ 5 - Very Good
3. **Was the entrepreneurial seminar interesting?**
   - ➲ 1 - Very Low
   - ➲ 2 - Low
   - ➲ 3 - Moderate
   - ➲ 4 - Good
   - ➲ 5 - Very Good
4. **How successful do you feel we were in achieving an increase in your understanding of entrepreneurial skills?**
   - ➲ 1 - Very Low
   - ➲ 2 - Low
   - ➲ 3 - Moderate
   - ➲ 4 - Good
   - ➲ 5 - Very Good
5. **What was your knowledge level of the topics covered attending the seminar?**
   - ➲ 1 - Very Low
   - ➲ 2 - Low
   - ➲ 3 - Moderate
   - ➲ 4 - Good
   - ➲ 5 - Very Good

HICET

Attendance sheet for Seminar on the Tittle of "Experience is the Key to Successful Entrepreneurship"

DATE: AN

S.Num	Name Of students	Department	Signature
51	Amarnath A R	MCT-A	
52	Ajeas Jenson	MCT-A	
53	M. MANOJ KUMAR	MCT-A	
54	Bessilin Jam S.M	MCT-A	
55	Akash R	MCT-A	
56	KHALID O JEFRIN	MCT-A	
57	Jagan. S. kumar	MCT-A	
58	AJUL DAS. P	MCT-A	
59	Jerome	MCT-A	
60	Nithulal	MCT-A	
61	Hadi	MCT-A	
62	Abhishake	MCT-A	
63	Fuad Faisal Pullasi	MCT-A	
64	Ajwad	MCT-A	
65	Mohamed Hasif	MCT-A	
66	Mohammed Anfas	MCT-A	
67	Mohammed Bilal Iqbal	MCT-A	
68	Mohammed Irfan A.S	MCT-A	
69	Fadhi Mohammed Ashraf.	MCT-A	
70	Mohamed EMATH	MCT-A	
71	ABDU RAHIMAN M	MCT-A	
72	Mohammed M Shuvishaudin VM	MCT-A	
73	Arun Prakash .A	MCT-A	
74	Gowtham . J	MCT-A	
75	Anwar. M.	MCT-A	
76	S. Deepak arun kumar	MCT-A	
77	U.MD	MCT-A	
78	Sudharsan	MCT-B	
79	S. Udhaya kumar	MCT-B	
80	Arni Santhosh	MCT-B	
81	Vimal raj	MCT-B	
82	Hari Haran	MCT-B	
83	Jana priyan. D	MCT-B	
84	Rahul Raj	MCT-B	
85	Surendar	MCT-B	
86	Naveen Kumar. P	MCT-B	
87	Anis Anandham	MCT-B	
88	John Wesly	MCT-B	
89	Naveen. C	MCT-B	
90	Vijayaregavan	MCT-B	
91	Shanmuga priyan. S	MCT-B	
92	Dharun. S	MCT-B	
93	Vishwanathan	MCT-B	
94	Dhev Vishal	MCT-B	
95	Kathir	MCT-B	
96	Siva Sankar	MCT-B	
97	Mathan	MCT-B	
98	Thiru Makan	MCT-B	
99	Mathav	MCT-B	
100	Thanush Ram	MCT-B	

HINDUSTHAN COLLEGE

Hindusthan College of Engineering and Technology,Coimbatore.

Department of Mechatronics Engineering,

Attendance sheet for Seminar on the Tittle of

Experience is the Key to Successful Entrepreneurship

DATE: **FN**

S.Num	Name Of students	Department	Signature
1	Shamil Noushad	MCT - B	
2	Pavan Theja S	MCT - B	
3	SUBHAN SHUHAIB	MCT. B	
4	VIVEK. E.S.	MCT. B	
5	VIGNESH. P. PRASAD	MCT - B	
6	S. YUTHIS	MCT -B	
7	R. PREM KUMAR	MCT-B	
8	PRAVEEN. K	MCT-B	
9	R. RANJITH	MCT-B	
10	A. SANTHOSH	MCT-B	
11	M. Mukesh	MCT-B	
12	K. Sethu	MCT-B	
13	SANTHAPRAKASH. M	MCT-B	
14	A. Sajith Varusan	MCT. B	
15	T.J. Thaven	MCT - B	
16	V.S. SANJAY KRISHNA	MCT. B	
17	R. Sri ram	MCT - B	
18	P. Yogeshwaran	MCT - B	
19	M.G. Sudharsan	MCT- B	
20	K. Sikesh	MCT - B	
21	Vignesh. N	MCT - B	
22	Sathish. A	MCT - B	
23	Sanjai. B	MCT - B	
24	Joffin mathew	MCT - B	
25	Sanjay.S	MCT - B	
26	Tharun Kumar. S	MCT - B	
27	Nithish Kumar A	MCT - B	
28	Gautham. EP	MCT - B	
29	Navanath Krishnan. C	MCT - B	
30	Dharunya. R	MCT - A	
31	Dhanalsha. L	MCT - A	
32	Jayathika Priya	MCT - A	
33	J. AUGUSTIN	"	
34	K.M. Mohamed Aslam	MCT-A	
35	Dharsan Pandian	B.E MCT - A	
36	DEEPESH. K.	MECHATRONICS - A . B.E	
37	ASWIN. S 801	MCT-A	
38	K. Janarthanan 39	MCT-A	
39	R. Kulothungan	MCT - A	
40	M. Jayachandran	MCT- A	
41	Kubesh. MS	MCT-A	
42	Md Mazies Alam	MCT - A	
43	Y. Deepak Raj	"	
44	Mukeeshwar. S	"	
45	Dave Kumar	"	
46	D. Harish	MCT - A	
47	Sahaya Jesin	MCT - B	
48	JOHN VESLIN	MCT - A	
49	RAM PRAKASH	MCT- A	
50	D. Sijilin Sanjai	MCT - A	

Vandalizhal

INSTITUTION'S INNOVATION COUNCIL (Ministry of HRD Initiative)

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST

HICET

Hindusthan
College of Engineering and Technology,
Valley Campus, Pollachi Highway, Coimbatore 641 032.
www.hicet.ac.in

Report for Event organized

Name of the Faculty: **Mr.V.Saravana Kumar & Mr.M.M.Jegan.**	
Department : **Aeronautical Engineering & Mechatronics Engineering**	Designation : **Assistant Professor**
Name of the Event: "Innovation Contest" (Developing Online Repository of Business Plan/Prototypes Developed and Way forward plan)	
Level : **College Level**	
Venue / Mode: **Tagore Auditorium / HICET**	
No. of Days : 1- DAY	Dates : 30.08.2023 WEDNESDAY (09.50 Am to 04.00 Pm)
Funded by : NIL	
No. of Participants : Students: 16 NO,S (8 TEAMS)	Registration charges (if any) :nil

Objective:

An innovation challenge, or an innovation competition, is a compelling way of generating innovative ideas. Participants are asked to generate ideas for creating new or improving products, processes, services or customer experience and remain engaged as the challenge progresses.

Outcome :

The extent to which a firm's objectives are met and the broader effects of innovation on other organisations, the economy, society, and the environment.

HINDUSTHAN COLLEGE OF ENGG & TECH

Remarks and Feedback on the Event:

Innovation competitions help organizations get out of their innovation bubble and look for alternative sources of idea inspiration.

Plan of Implementing in HiCET (if any) :

Similar programmes will be organised to promote Successful Innovators

V. Saravanan

Signature of the Faculty

HoD

Principal

PRINCIPAL
Hindusthan College Of Engineering
COIMBATORE - 64

HINDUSTHAN COLLEGE OF ENGG & TECH · CBE · TN

Photographs of Event





HINDUSTHAN COLLEGE OF ENGG & TECH

Geo Tagged Photographs of Event





HINDUSTHAN COLLEGE OF ENGG & TECH · CBE · TN

Category: IIC - Driven Activity
Name of Student Coordinator: Mr D.Sathya narayanan
Weather Event Brochure / Invitation Published in Social Media : Yes
If Yes, Mention Link details: https://www.facebook.com/hicethindusthan/photos/a.2144701932498691/27800065923 01552/



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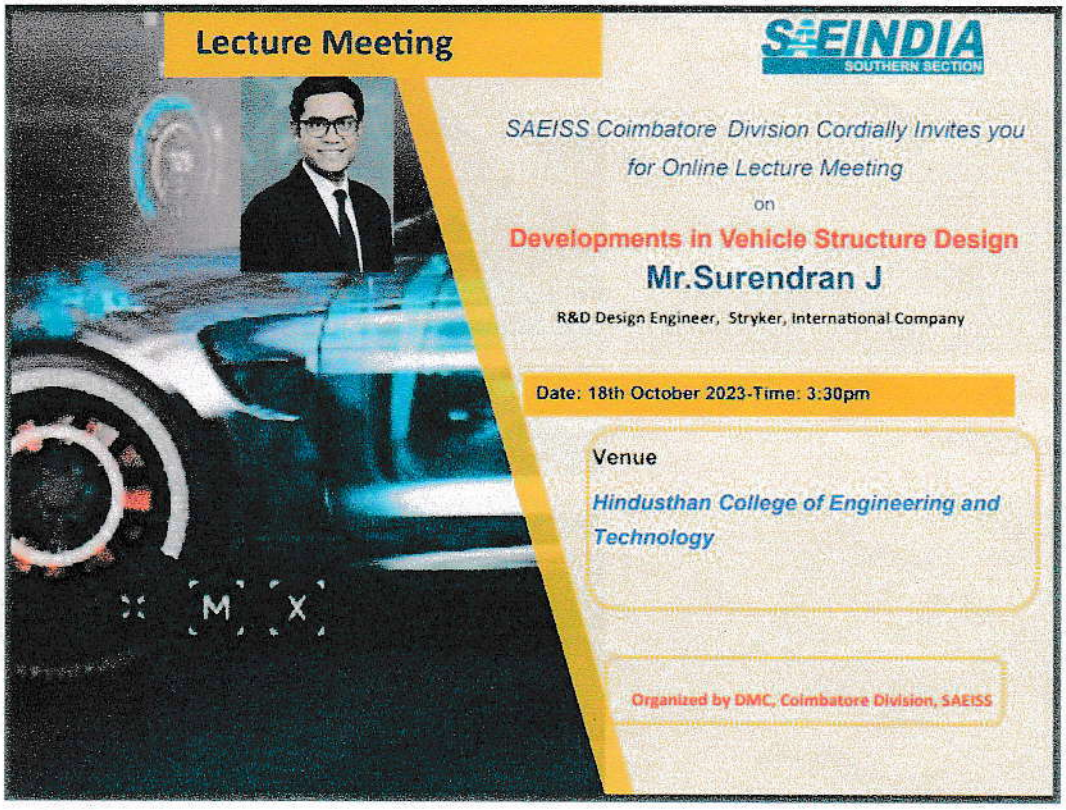
Report for Lecture meeting on the topic "Developments in the Vehicle Structure Design"

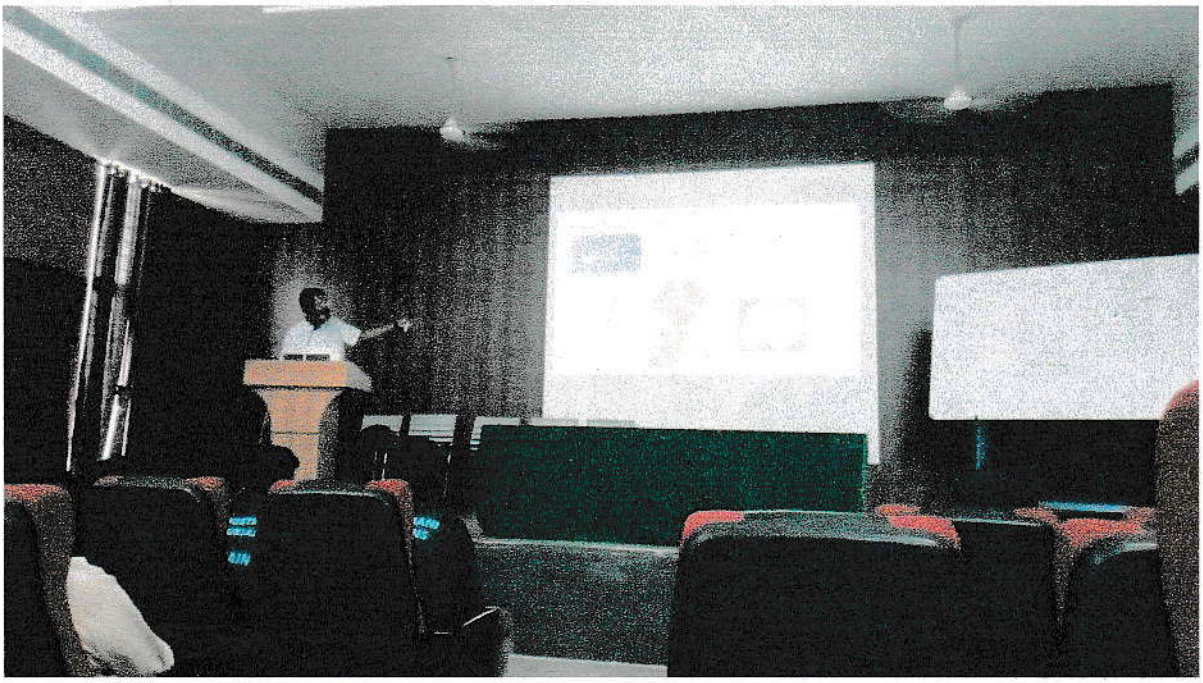
Name of the Faculties: Y. Ras Mathew		
Department : Mechanical Engineering		Designation: Associate Professor
Name of the Event: Lecture meeting on the topic "Developments in the Vehicle Structure Design"		
Level : National Level		
Venue / Mode : Hindusthan College of Engineering and Technology, Coimbatore.		
No. of Days : 1 day		Dates: 18th October 2023
Funded by : Nil		
No. of Participants:		Registration charges (if any): Nil
Faculties	5	
Students	59	
Externals	1	
Name and Designation of Resource Person(s): 1. Mr. Surendran J, R & D Engineer, Stryker		
Objective: To update the students awareness and knowledge on vehicle structure design.		
Outcome : Students were learned about the advancements and importance of vehicle structure design.		
Remarks and Feedback on the Event : Good		
Plan of Implementing in HiCET (if any) :		

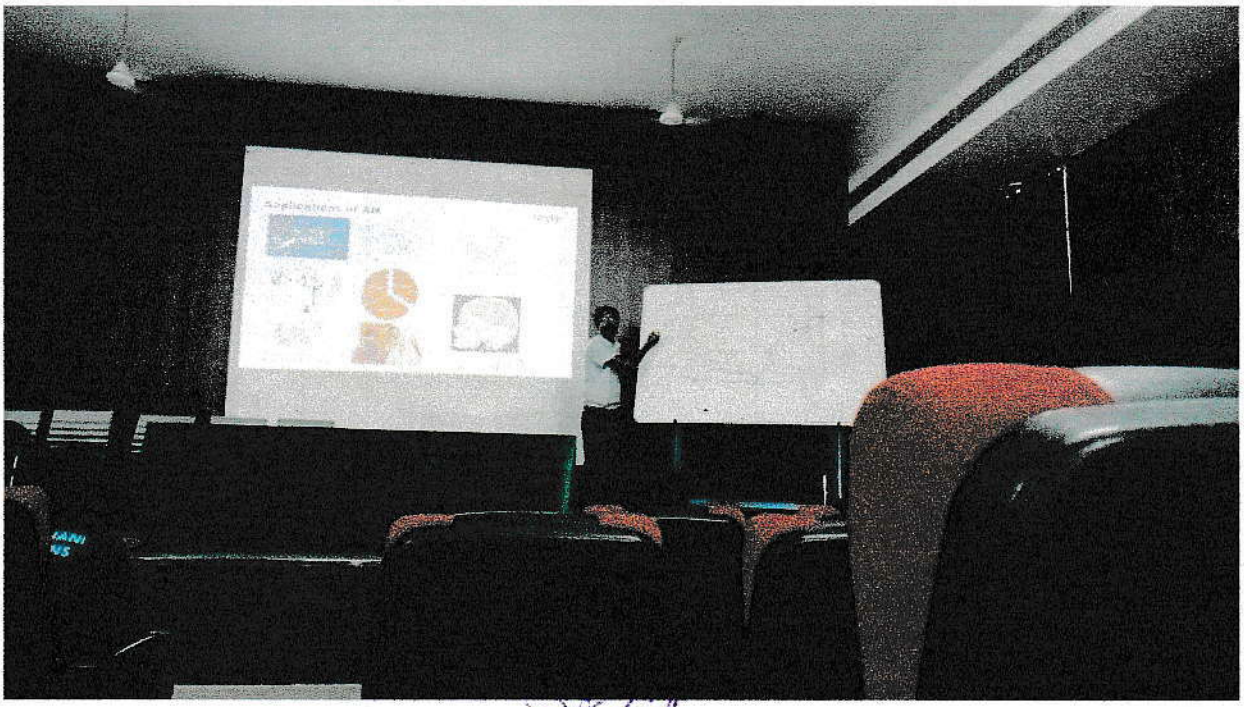
HINDUSTHAN COLLEGE OF ENGG & TECH · CBE-32 ·

Signature of the Faculty | HoD | Principal

PRINCIPAL
Hindusthan College of Engineering and Technology
COIMBATORE - 641 032.


Lecture Meeting
SAEINDIA
SOUTHERN SECTION
SAEISS Coimbatore Division Cordially Invites you
for Online Lecture Meeting
on
Developments in Vehicle Structure Design
Mr.Surendran J
R&D Design Engineer, Stryker, International Company
Date: 18th October 2023-Time: 3:30pm
Venue
Hindusthan College of Engineering and Technology
Organized by DMC, Coimbatore Division, SAEISS





HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST

HICET

Hindusthan
College of Engineering and Technology,
Valley Campus, Pollachi Highway, Coimbatore 641 032.
www.hicet.ac.in

Report for "Participation in E Kart Racing Championship"

Name of the Faculties: Y. Ras Mathew	
Department : Mechanical Engineering	Designation: Associate Professor
Name of the Event : E Kart Racing Championship	
Level : National Level	
Venue / Mode : Hindusthan College of Engineering and Technology, Coimbatore., KARI MOTORSPORTS	
No. of Days : 3 days	Dates: 7-9 August 2023
Funded by : HICET	
No. of Participants: Faculties 10; Students 25; Externals 300	Registration charges (if any): Nil
Name and Designation of Resource Person(s): 1. Academy of Indigeneous Motor Sports	
Objective: 1. To Design Fabricate Analyse, and test the Electric version of GOKART	
Outcome : 1. The Ekart was designed analysed fabricated and tested in real time conditions and participated in the event with Overall Championship in 2-3 KW.	
Remarks and Feedback on the Event : Good	
Plan of Implementing in HiCET (if any) :	
Signature of the Faculty	HoD / Principal

HINDUSTHAN COLLEGE OF ENGG & TECH · CBE · 32

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Hindusthan College of Engineering and Technolo
COIMBATORE - 641 032.

PARTICIPATION NAMELIST AIMS EKVC SEASON 2				
S.NO	REGISTER NO	NAME	DEPT	YEAR
1	720720108837	KARTHIK S	MECH	IV
2	720720108057	NILAN SUJAI A	MECH	IV
3	720720108045	LOGESH RM	MECH	IV
4	720720108044	LAKSHMAN BABU P	MECH	IV
5	720720108090	VIGNEASHWARAN V	MECH	IV
6	720720108834	JERSHIN JOSE	MECH	IV
7	720720105050	SABARISWARAN	EEE	IV
8	720720105046	MOHAMMED RIYAS K	EEE	IV
9	720720105053	VIJAYKUMAR	EEE	IV
10	720720105021	KEBINRAJ	EEE	IV
11	720720111024	HERMOIN B PRAVEEN	AGRI	IV
12	720720111045	JASIM	AGRI	IV
13	720720111027	JENIFFER	AGRI	IV
14	720721108085	PERUMAL	MECH	III
15	720721108112	MILINTH	MECH	III
16	720721108089	SIBISRIRAM	MECH	III
17	720721108070	NAVEEN S	MECH	III
18	720721106061	MAHA GAYATHRI	ECE	III
19	720721106808	SHANTHINI	ECE	III
20	720722108080	SHARATH	MECH	II
21	720722106034	UKANTH ARUN K	ECE	II
22	720722106083	PRAVIN S	ECE	II
23	720721106061	MELLISAI VANI	ECE	II
24	720722106015	HARSHINI	ECE	II
25	720722106053	DIVYA	ECE	II
26	720720108873	SAKTHI THANGARAJAN	MECH	IV
27	720720108886	TAMILINIYAN	MECH	IV
28	720720108884	SURIYA NAVEEN	MECH	IV



HINDUSTHAN COLLEGE OF ENGG & TECH · CBE - 32 ·

SEASON 2

A NATIONAL LEVEL GO-KART EVENT

www.aimsacademys.org.

KART RACING CHAMPIONSHIP

POWERED BY

ACADEMY OF INDIGENOUS MOTOR SPORTS

Certificate of Merit

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Team of HINDUSTAN LAHURIANS representing from the college HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY in the category of 130cc / 150cc / E-Kart 3.4kw won the " Best Cost Optimum Award" in a National Level Gokart "Kart Racing Championship" powered by "Academy of Indigenous Motor Sports " held at Hindusthan college of Engineering & Technology and kari Motor Speed way,coimbatore from August 7 to 9, 2023. we wish the Team Members all the best for their future endeavors.

G.DIWAGAR
MANAGING DIRECTOR

SUPPORTING PARTNERS

HICET

SEVC

Kari Motor Speedway

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST
HICET

Hindusthan
College of Engineering and Technology,
Valley Campus, Pollachi Highway, Coimbatore 641 032.
www.hicet.ac.in

Report for "Hosting of V12 Racing"

Name of the Faculties: Dr. Y. Ras Mathew		
Department	: Mechanical Engineering	Designation: Associate Professor
Name of the Event	: Hosting of V12 Racing	
Level	: National Level	
Venue / Mode	: Hindusthan College of Engineering and Technology, Coimbatore., Hindusthan Dirt Park	
No. of Days	: 1 day	Dates: 07.07.2024
Funded by	: HICET	
No. of Participants:		Registration charges (if any): Nil
Faculties	1	
Students	20 Volunteers	
Externals	50+	

Name and Designation of Resource Person(s):
1. FMSCI Team, Coimbatore Corporation Mayor.

Objective:
1. To conduct endurance on various category of cars with different engine specs.

Outcome :
1. Event was conducted for various participants across the country.
2. Students learned about the various modifications done on the vehicles and how they influence the vehicle performances.
3. Students learned about the safety features and safety precautions to be taken in the event.

Remarks and Feedback on the Event :
1. Food, Accomodation facilities has been given to them.
2. Stage Facilities was given to them for valediction.

Plan of Implementing in HiCET (if any) :

H.I.C.E.T ★ MECH ★ COIMBATORE

Signature of the Faculty

HoD

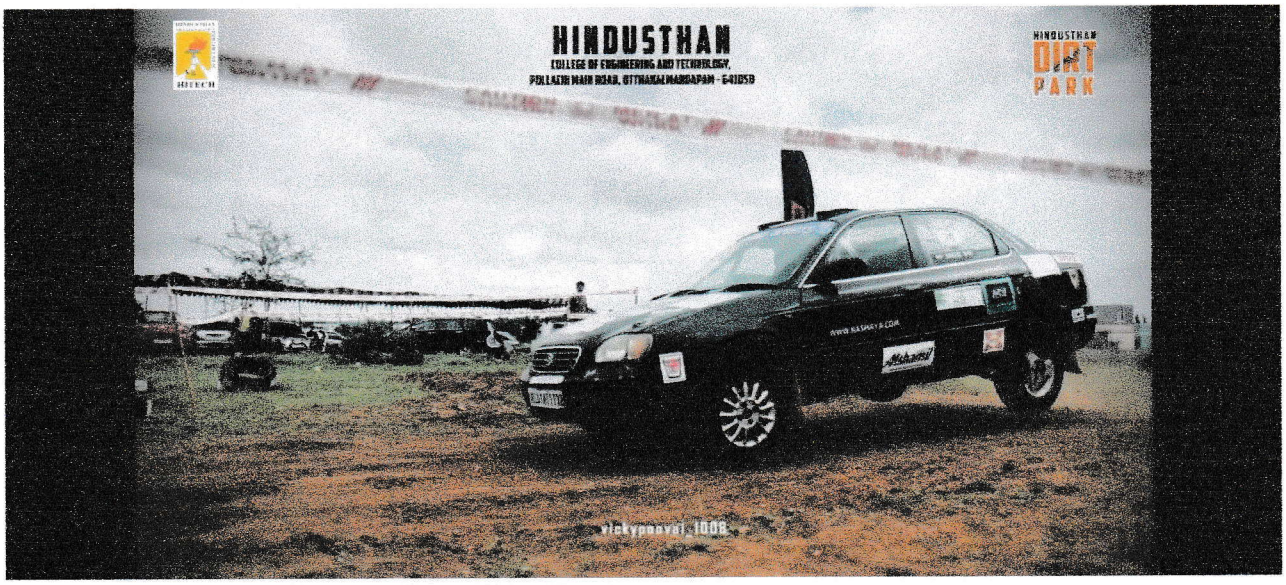
Principal

Head of The Department
Department of Mechanical Engineering
Hindusthan College of Engg. & Technology
Coimbatore - 32

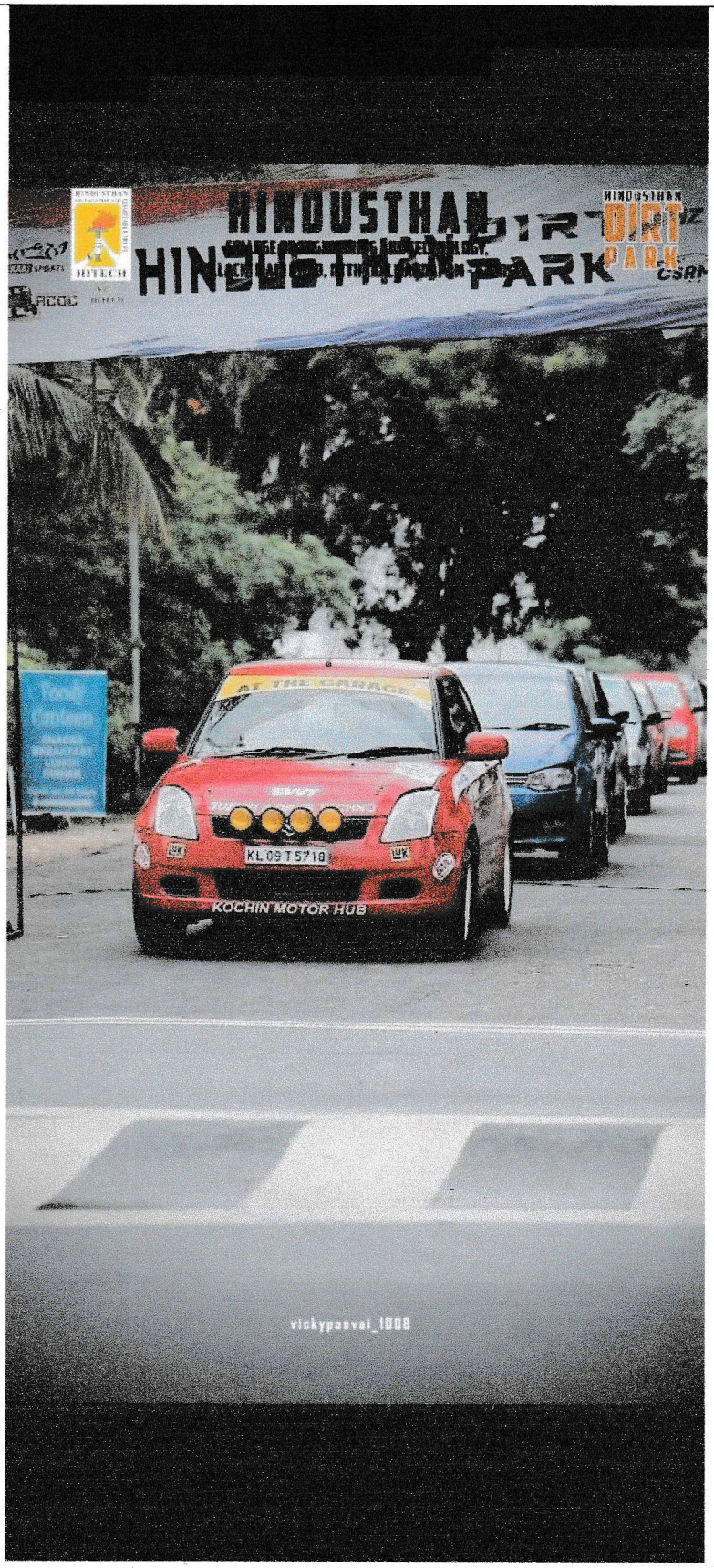
PRINCIPAL
Hindusthan College Of Engineering & Technology
COIMBATORE - 641 032.


HINDUSTHAN
DIRT PARK
AMZ
CSRM
KL 05 AE 3029

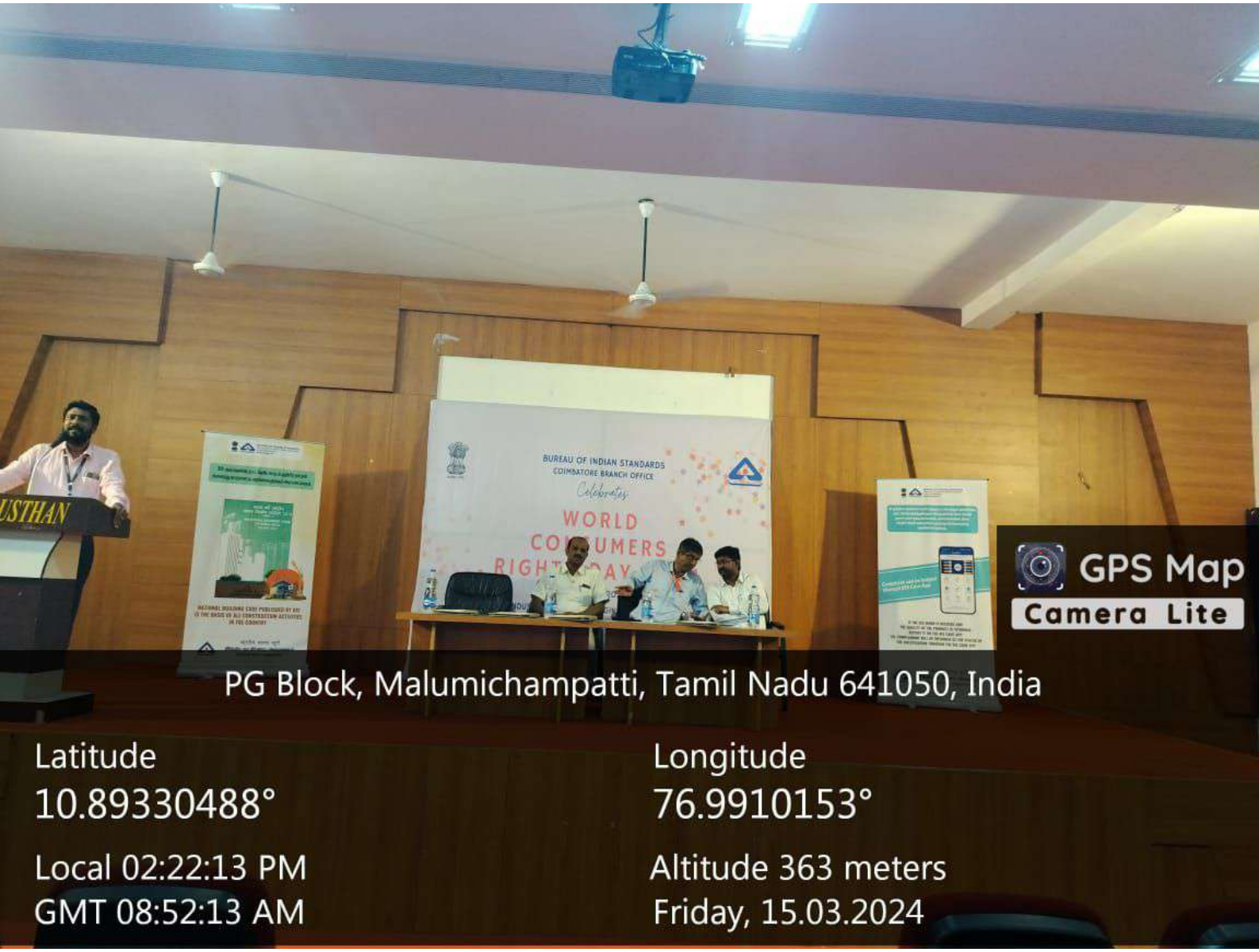

HINDUSTHAN
DIRT PARK



H.I.C.E.T
MECHI
COIMBATORE



H.I.E.T COIMBATORE MECH


BUREAU OF INDIAN STANDARDS
COIMBATORE BRANCH OFFICE
Celebrates
WORLD
CONSUMERS
RIGHTS DAY
GPS Map
Camera Lite
PG Block, Malumichampatti, Tamil Nadu 641050, India
Latitude
10.89330488°
Longitude
76.9910153°
Local 02:22:13 PM
GMT 08:52:13 AM
Altitude 363 meters
Friday, 15.03.2024



PG Block, Malumichampatti, Tamil Nadu 641050, India

Latitude
10.89336188°

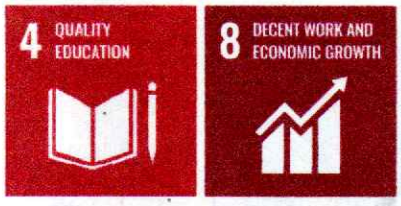
Longitude
76.99100819°

Local 02:22:07 PM
GMT 08:52:07 AM

Altitude 363 meters
Friday, 15.03.2024

Hindusthan
College of Engineering and Technology
Valley Campus, Pollachi Highway, Coimbatore 641 032
www.hicet.ac.in

REPORT FOR STAFF DEVELOPMENT PROGRAMME

Name of the Faculty: Mr. R. Sakthivel & Mr. A. Alex Livingston Raja	
Department: Civil Engineering	**Designation:** Assistant Professor
Nature of the Event: Staff Development Programme	
Category: Institution Level	
Title: Basics of Microsoft Office	
Mapping with UN Sustainable Development Goals: 	
Venue / Mode: Visvesvaraya Hall, Department of Civil Engineering, HICET.	
No. of Days: 01	**Date:** 15.11.2023
In Association With: -	
No. of Participants: 24	**Registration Charges (if any): -**

Name and Designation of Resource Persons:
Mr. A. Alex Livingston Raja,
Professor, Department of Civil Engineering,
Hindusthan College of Engineering and Technology,
Coimbatore.

Outcome of the Event:
The participants will be able to:

- Create, format, and edit professional documents, spreadsheets, and presentations using Microsoft Office tools.
- Efficiently utilize Microsoft Word, Excel, and PowerPoint for documentation, data analysis, and visual presentations.

Remarks and Feedback of the Event: The training was insightful and well-structured, equipping participants with essential Microsoft Office skills for productivity.

Plan of Implementing in HiCET (if any): To organize more interactive sessions and hands on activities on related topics in the future.

Faculty Incharge **HOD, Civil Engineering** **Principal**

Invitation / Brochure

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST
HICET

HINDUSTHAN
COLLEGE OF ENGINEERING AND TECHNOLOGY
An Autonomous Institution, Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai, Accredited by NAAC with 'A++' Grade
OTHAKKALMANDAPAM, COIMBATORE - 641 032

DEPARTMENT OF CIVIL ENGINEERING
Cordially Invites You for the Staff Development Programme on

BASICS OF MICROSOFT OFFICE



Resource Person
Mr. A. Alex Livingston Raja
Assistant Professor, Civil Engineering
Hindusthan College of Engineering and Technology
Coimbatore

Coordinator
Mr. R. Sakthivel
Assistant Professor
Civil Engineering, HICET

Convenor
Dr. K. Akil
Professor & Head
Civil Engineering, HICET

Principal
Dr. J. Jaya
HICET

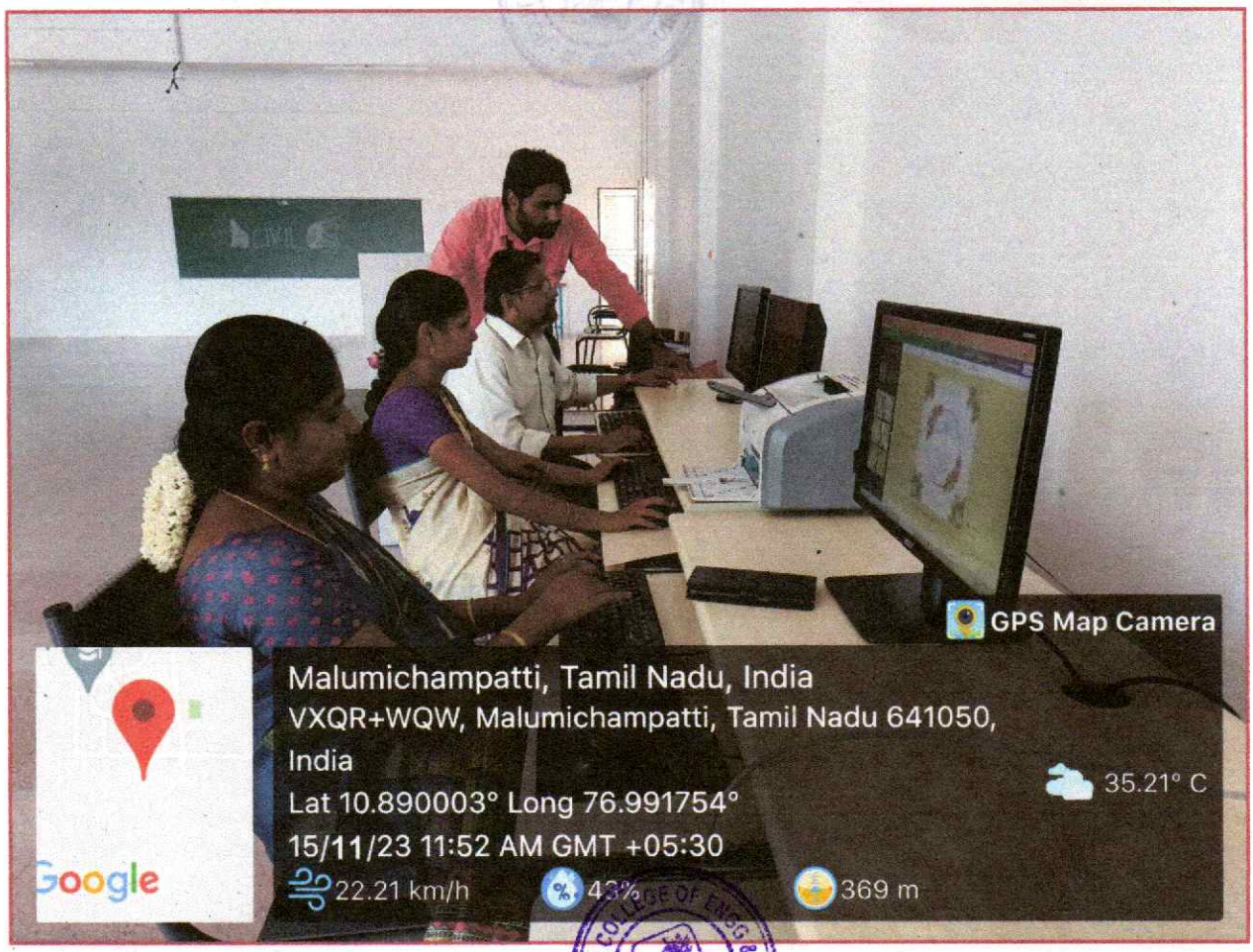
Chief Executive Officer
Dr. K. Karunakaran
Hindusthan Institutions

15.11.2023, Wednesday at 10:00 AM
Venue: Visvesvaraya Hall, HICET

HINDUSTHAN COLLEGE OF ENGG & TECH - CBE - 32

Photographs of the Programme





HINDUSTHAN COLLEGE OF ENGG & TECH. CBE - 32

Sample Certificate of Participation

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institution, Affiliated to Anna University, Chennai
Approved by AICTE, New Delhi, Accredited by NAAC with 'A++' Grade
Accredited by NBA (AERO, AUTO, CIVIL, CSE, ECE, EEE, IT, MECH & MCT)
Valley Campus, Coimbatore 641032. www.hicet.ac.in

DEPARTMENT OF CIVIL ENGINEERING

Certificate of Participation

This is to certify that **Ms. Geethanjali** of **Hindusthan College of Engineering and Technology** has participated in the Staff Development Programme on **Basics of Microsoft Office** organized by the Department of Civil Engineering, Hindusthan College of Engineering and Technology, Coimbatore on 15.11.2023.

Mr. A. Alex Livingston	**Dr. K. Akil**	**Dr. J. Jaya**
Co-Ordinator	Convenor	Principal

Hindusthan
College of Engineering and Technology
Valley Campus, Pollachi Highway, Coimbatore 641 032
www.hicet.ac.in

REPORT FOR STAFF DEVELOPMENT PROGRAMME

Name of the Faculty: Mr. Alex Livingston Raja	
Department: Civil Engineering	**Designation:** Assistant Professor
Nature of the Event: Staff Development Programme	
Category: Institution Level	
Title: Vaasthu for Residential Buildings	
Mapping with UN Sustainable Development Goals: 	
Venue / Mode: Visvesvaraya Hall, Department of Civil Engineering, HICET.	
No. of Days: 01	**Date:** 30.05.2024
In Association With: -	
No. of Participants: 25	**Registration Charges (if any): -**

Name and Designation of Resource Persons:
Mr. R. Sakthivel,
Professor, Department of Civil Engineering,
Hindusthan College of Engineering and Technology,
Coimbatore.

Outcome of the Event:
The participants will be able to:

- Analyze the principles of Vaasthu to optimize space utilization and energy flow in residential buildings.
- Apply the guidelines of Vaasthu to design homes to enhance the functionality and aesthetics in residential buildings.

Remarks and Feedback of the Event: The event was insightful, engaging, and provided practical knowledge on applying the principles of Vaasthu effectively.

Plan of Implementing in HiCET (if any): To organize more interactive sessions and hands on activities on related topics in the future.

Faculty Incharge **HOD, Civil Engineering** **Principal**

Invitation / Brochure

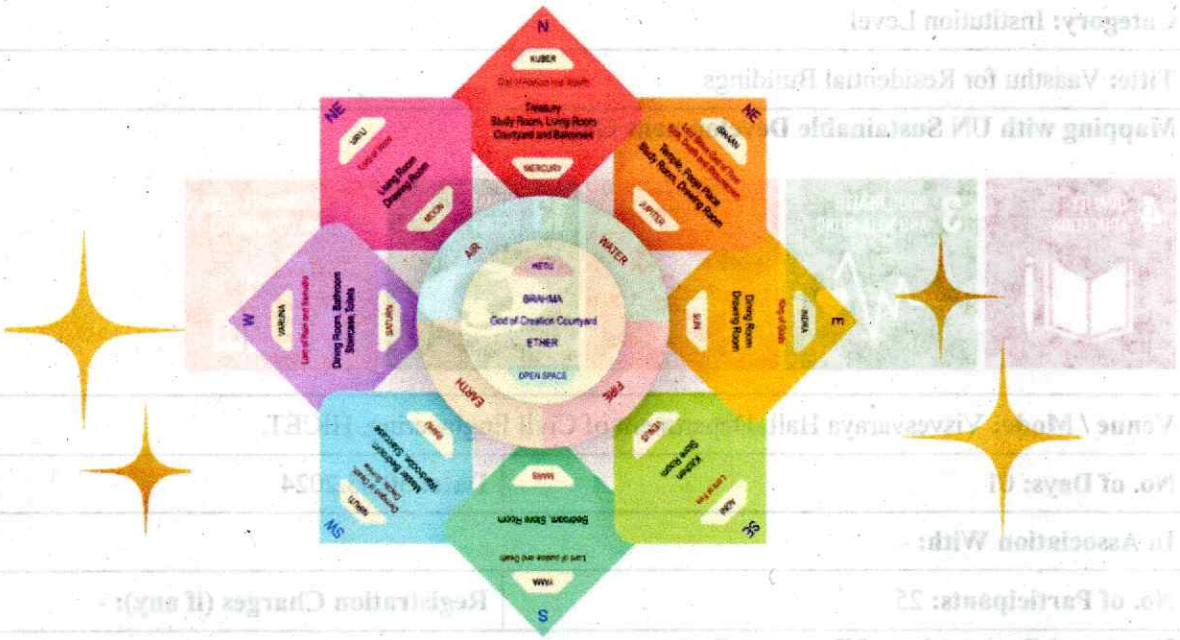
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COLLEGE OF ENGINEERING AND TECHNOLOGY

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Valley Campus, Pollachi Highway, Coimbatore - 641 032

DEPARTMENT OF CIVIL ENGINEERING

Cordially Invites You for the Staff Development Programme on

VAASTHU FOR RESIDENTIAL BUILDINGS



Resource Person
Mr. R. Sakthivel
Assistant Professor, Department of Civil Engineering
Hindusthan College of Engineering and Technology, Coimbatore

Coordinator
Mr. A. Alex Livingston Raja
Assistant Professor
Civil Engineering, HICET

Convenor
Dr. K. Akil
Professor & Head
Civil Engineering, HICET

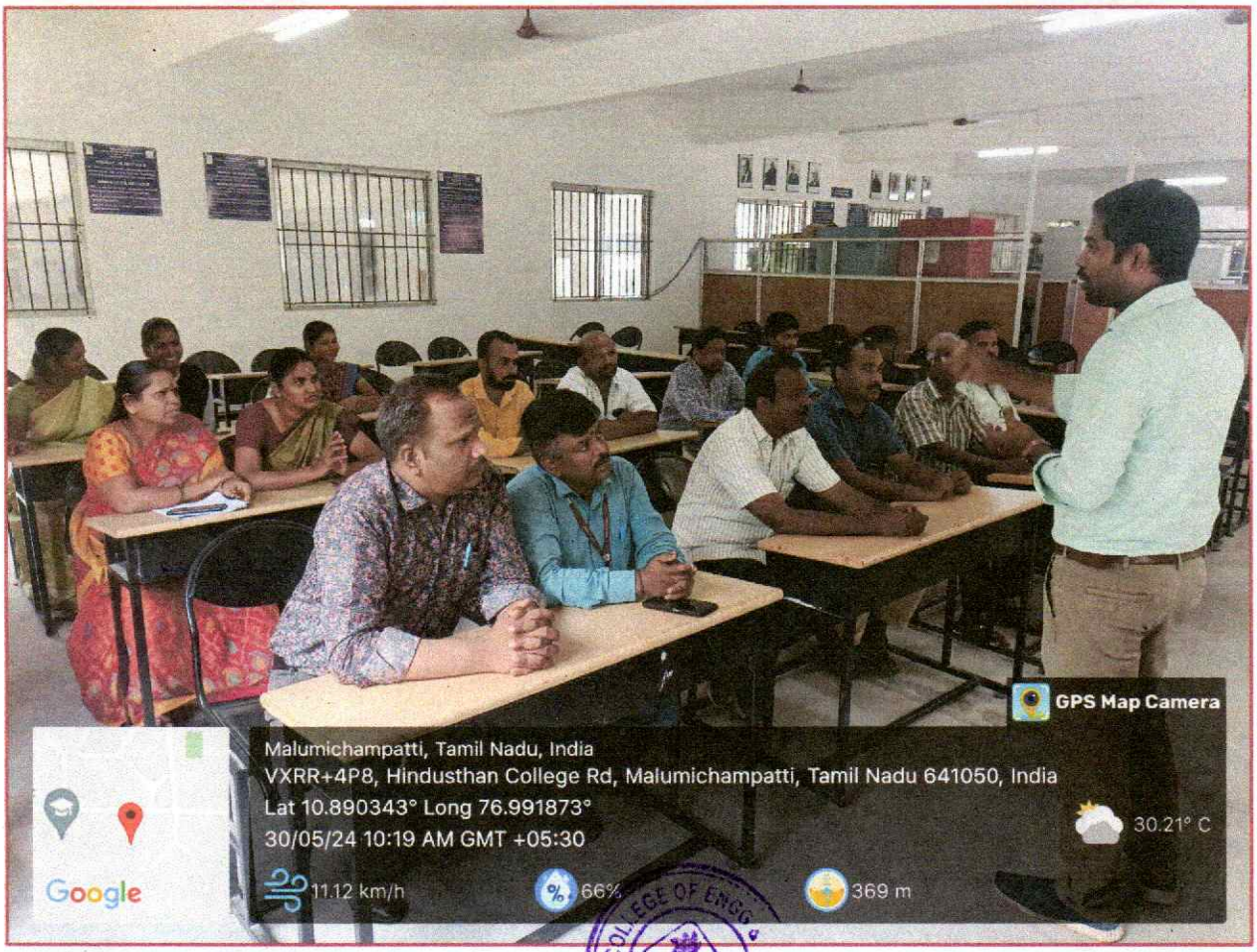
Principal
Dr. J. Jaya
Principal, HICET

Chief Executive Officer
Dr. K. Karunakaran
Hindusthan Institutions

30.05.2024, Thursday at 10:00 AM
Venue: Visvesvaraya Hall, HICET

Photographs of the Programme





HINDUSTHAN COLLEGE OF ENGG. COIMBATORE

Sample Certificate of Participation

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DEPARTMENT OF CIVIL ENGINEERING

Certificate of Participation

This is to certify that **Mr. Irudayasamy** of **Hindusthan College of Engineering and Technology** has participated in the Staff Development Programme on **Vaasthu for Residential Buildings** organized by the Department of Civil Engineering, Hindusthan College of Engineering and Technology, Coimbatore on 30.05.2024.

Mr. A. Alex Livingston
Co-Ordinator

Dr. K. Akil
Convenor

Dr. J. Jaya
Principal

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST

HICET

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College of Engineering and Technology
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REPORT FOR FACULTY DEVELOPMENT PROGRAMME

Name of the Faculty: Mr. A. Alex Livingston Raja	
Department: Civil Engineering	**Designation:** Assistant Professor
Nature of the Event: Faculty Development Programme	
Category: National Level	
Title: Mastering the Essentials of Journal Writing and Project Proposal	
Mapping with UN Sustainable Development Goals: 	
Venue / Mode: Google Meet (meet.google.com/oid-mzpo-pux)	
No. of Days: 02	**Date:** 27.06.2024 and 28.06.2024
In Association With: -	
No. of Participants: 128	**Registration Charges (if any):** -
Name and Designation of Resource Persons: Mr. M. Mohan Raj, Professor, Department of Mechanical Engineering, Hindusthan College of Engineering and Technology, Coimbatore.	**Name and Designation of Resource Persons:** Mr. D. Karunanidhi, Professor, Department of Civil Engineering, Hindusthan College of Engineering and Technology, Coimbatore

Outcome of the Event:
The participants will be able to:

- Craft well-structured, concise, and impactful journal articles suitable for academic and professional publications.
- Draft persuasive, goal-oriented project proposals that meet funding and organizational requirements.

Remarks and Feedback of the Event: The event was insightful and well-organized, providing valuable knowledge and practical skills for journal writing and project proposals.

Plan of Implementing in HiCET (if any): To organize more events in the future to further enhance skills and knowledge in journal writing and project proposals.

Faculty Incharge	HOD, Civil Engineering	Principal

HINDUSTHAN COLLEGE OF ENGG & TECH.

Invitation / Brochure

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DEPARTMENT OF CIVIL ENGINEERING

Cordially Invites You for the

Faculty Development Programme on

MASTERING THE ESSENTIALS OF JOURNAL WRITING AND RESEARCH PROPOSALS

Resource Persons

Session-I
27.06.2024, Thursday @ 2:30 PM



Dr. M. Mohanraj
Professor
Mechanical Engineering, HICET

Session-II
28.06.2024, Friday @ 2:30 PM



Dr. D. Karunanidhi
Professor
Civil Engineering, HICET

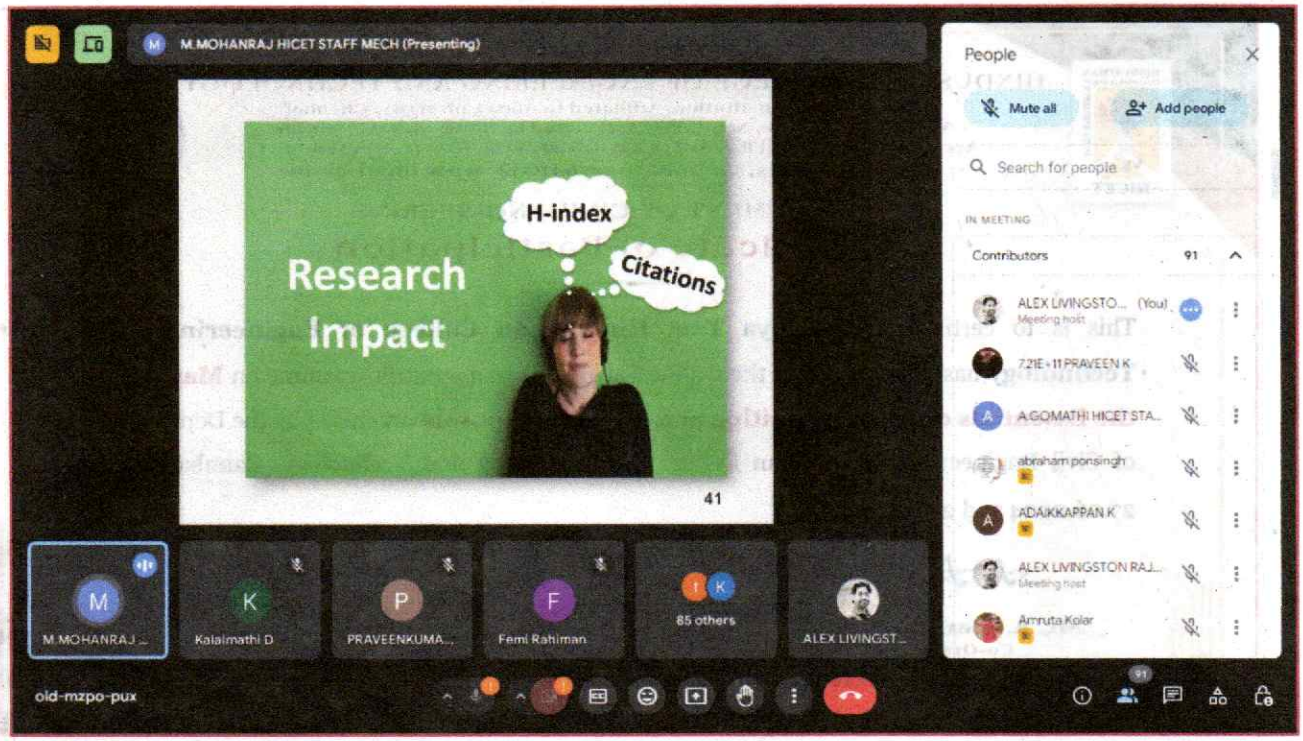
Co-ordinators
Mr. A. Alex Livingston
Assistant Professor
Civil Engineering, HICET
&
Mr. R. Poomalai
Assistant Professor
Civil Engineering, HICET

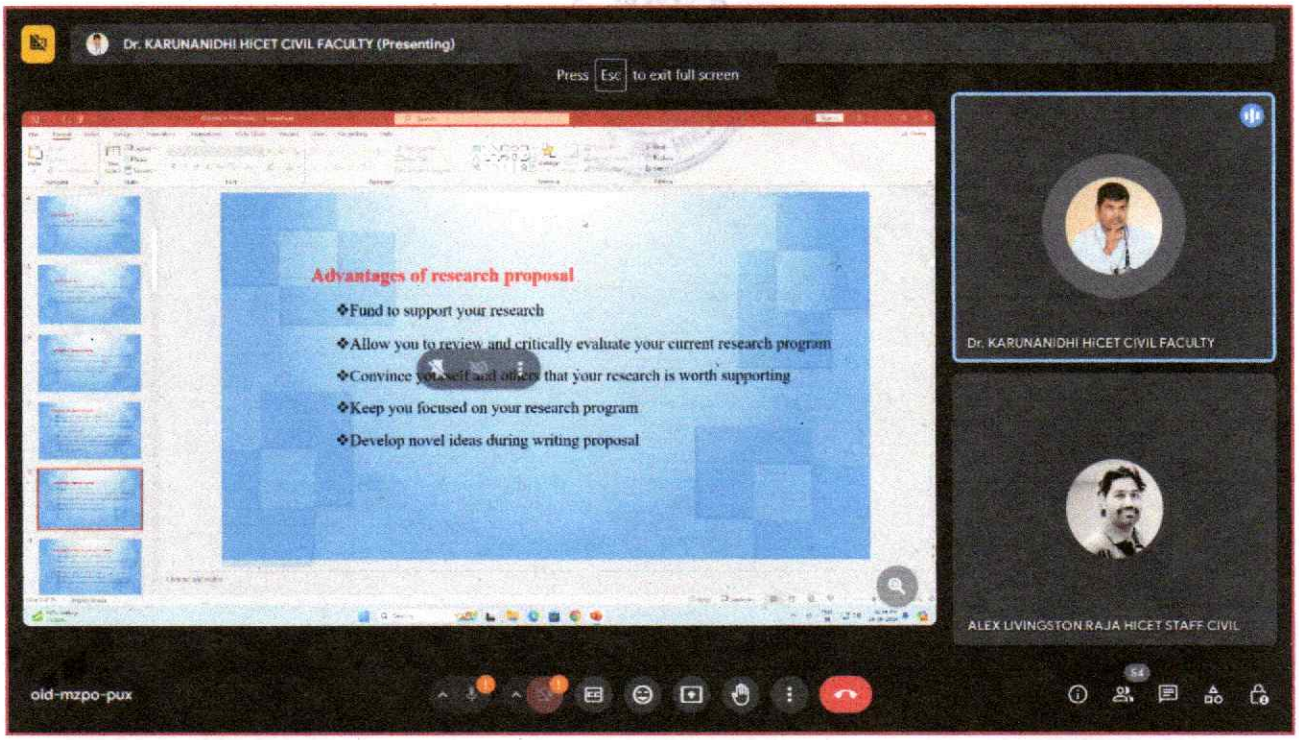
Convenor
Dr. K. Akil
Professor and Head
Civil Engineering, HICET

Patrons
Dr. J. Jaya
Principal
HICET
&
Dr. K. Karunakaran
Chief Executive Officer
Hindusthan Institutions

27.06.2024 & 28.06.2024 at 02:30 PM
meet.google.com/oid-mzpo-pux

Photographs of the Programme







Sample Certificate of Participation

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DEPARTMENT OF CIVIL ENGINEERING

Certificate of Participation

This is to certify that **Soumya T** of **Hindusthan College of Engineering and Technology** has participated in the Online Faculty Development Programme on **Mastering the Essentials of Journal Writing and Project Proposals** organized by the Department of Civil Engineering, Hindusthan College of Engineering and Technology, Coimbatore on 27.06.2024 and 28.06.2024.

Mr. A. Alex Livingston
Co-Ordinator

Dr. K. Akil
Convenor

Dr. J. Jaya
Principal

Certificate ID:0H77DA-CE000114

Made for free with Certify'em

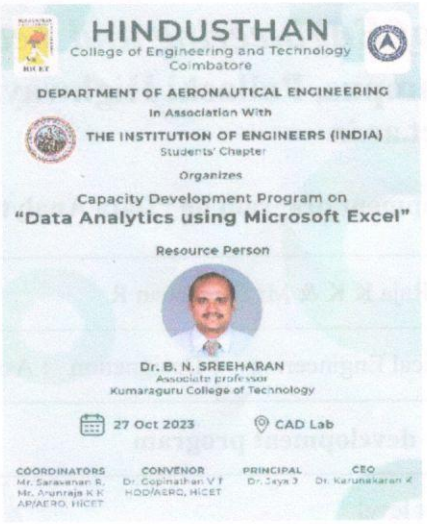
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Report for Capacity development program on "Data Analytics using Microsoft Excel"

Name of the Faculty : Mr Arun Raja K K & Mr Saravanan R	
Department : Aeronautical Engineering	Designation : Assistant Professor
Name of the Event : **Capacity development program**	
Level : Department level	
Venue / Mode : Aero department CAD lab	
No. of Days : 1 Day	Dates : 27.10.2023
Funded by : -	
No. of Participants : 45	Registration charges (if any) : - nil
Name and Designation of Resource Person(s): - Dr. B. N. SREEHARAN, M.E., Ph.D, Associate professor, Kumaraguru College of Technology.	
Outcome: ✓ Student have actively participated the event ✓ Students have leaned about the importance of Microsoft excel	
Remarks and Feedback on the Event: ✓ Can be conducted as a three days workshop -	
Plan of Implementing in HiCET (if any): -	
Signature of the Faculty	HoD/AERO Principal

Copy of the Event Brochure / Invitation:



Geo Tagged Photographs of Event – 2 Nos:



Copy of the Participation/Issue Certificate:



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Tel: +91 422 4242424 www.hicet.ac.in

DEPARTMENT OF AERONAUTICAL ENGINEERING

Capacity development program on

"Data Analytics using Microsoft Excel"

Date: 27/10/2023

Attendance Sheet

Sl.No	Reg No	Name	Signature (FN)	Signature (AN)
1.	20101051	Saeedbin Ahmed		
2.	20101058	V. Sivaranjani	V. Siv	V. Siv
3.	20101020	AYAAZ RAHMAN		
4.	20101810	POORVAJA S V		
5.	20101809	R.J. Naresh kumar	R.J. Naresh	R.J. Naresh
6.	20101043	Nafsiya Abdul Raphic		
7.	20101044	Amar Raj		
8.	20101812	Bravin. A		
9.	20101807	Mohitsabharesh		
10.	20101049	Rajakeerthani. S		
11.	20101047	Prabethi S	S. Prabethi	S. Prabethi
12.	20101052	Sanjay. M		
13.	20101036	Kumaravarma. S	S. Kumaravarma	S. Kumaravarma
14.	20101065	Kore Sai Lakshmi	K Sai Lakshmi	K Sai Lakshmi
15.	20101803	Dhusyanth. P	P. Dhu	P. Dhu
16.	20101814	VASANTH KUMAR. R	R. Vasanth	R. Vasanth
17.	20101057	Dilambanasan. M		
18.	20101801	BALAMURUGAN. R	R. Bal	R. Bal
19.	20101037	S. LOGESH	S. Logesh	S. Logesh
20.	20101027	D. Gayathri	Gayathri	Gayathri
21.	20101006	Abinave K Rajesh		
22.	20101003	Aashik Ailahi B	Aashik	Aashik
23.	20101039	Manoj Kumar K	K. Manoj Kumar	K. Manoj Kumar
24.	20101017	Arun Mathew. I	I. Arun	I. Arun
25.	20101015	Amarthiyasen. S	S. Amar	S. Amar
26.	20101002	Aashik Barhath N	Aarush	Aarush
27.	20101601	SAJIL SANATH	Sajil	Sajil
28.	20101005	ABHINAV. E	Abhinav	Abhinav

Department of Aeronautical Engineering HICET

29.	20101004	S. Abdul Rahuman	S. Abdul Rahuman	S. Abdul Rahuman
30.	20101011	AKHIL. A. S		
31.	20101053	SANJAY. S	S. Sanjay	S. Sanjay
32.	20101056	SATHISHKUMAR S	S. Sathish	S. Sathish
33.	20101025	DHARINEESH S	Dharineesh. S	Dharineesh. S
34.	20101804	FARAZ. M	M. Faraz	M. Faraz
35.	20101010	AJITHKUMAR. M	M. Ajith	M. Ajith
36.	20101009	AJAY G	G. Ajay	G. Ajay
37.	20101018	ARUNPRASATH. S	S. Arunprasath	S. Arunprasath
38.	20101035	KISHORE KUMAR S.	S. Kishore	S. Kishore
39.	20101062	VENGATESAN. P	P. Venkatesan	P. Venkatesan
40.	20101040	MANOJ P	P. Manoj	P. Manoj
41.	20101815	A. Vimal Rajan	A. Vimal Rajan	A. Vimal Rajan
42.	20101803	H. Mohamed Taffic	H	H
43.	20101063	VISHNU G	G. Vishnu	G. Vishnu
44.	20101013	B. Alex Narayanan	B. Alex Narayanan	B. Alex Narayanan
45.	20101055	Santhosh. J	J. Santhosh	J. Santhosh
46.	20101041	Mohamed Yusuldeen. N	N. Yusuldeen	N. Yusuldeen
47.	20101063	VISHNU G	G	
48.	~~20101021~~ 20101022	Saeel Dhanush kumar. V	V. Dhanush	V. Dhanush
49.	~~20101804~~	~~FAR~~		
50.				

Staff Incharge

Department of Aeronautical Engineering ★ HICET

HoD/Aero

Hindusthan
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Valley Campus, Coimbatore 641 032.
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Report for Five-day FDP on "Advancements in Aerospace Materials: Manufacturing, Testing and Characterization-2.0" organized.

Name of the Faculty: Prof.D.Tamilvendan, Prof.V.Saravanakumar	
Department : Aeronautical Engineering	Designation : Assistant Professor
Name of the Event : FDP on "Advancements in Aerospace Materials: Manufacturing, Testing and Characterization-2.0"	
Level : International level	
Mapping with UN SDGs (Tick the relevant) : No poverty **(SDG 1)**, Zero hunger **(SDG 2)**, Good health and well-being **(SDG 3)**, Quality education **(SDG 4)**, Gender equality **(SDG 5)**, Clean water and sanitation **(SDG 6)**, Affordable and clean energy **(SDG 7)**, Decent work and economic growth **(SDG 8)**, Industry, innovation and infrastructure **(SDG 9)**, Reduced inequalities **(SDG 10)**, Sustainable cities and communities **(SDG 11)**, Responsible consumption and production **(SDG 12)**, Climate action **(SDG 13)**, Life below water **(SDG 14)**, Life on land **(SDG 15)**, Peace, justice, and strong institutions **(SDG 16)**, and Partnerships for the goals **(SDG 17)**.	
Venue / Mode : Virtual mode	
No. of Days : 5 day	Dates: 11.03.2024 to 15.03.2024
Funded by : Management(HICET)	
No. of Participants : 190	Registration charges (if any) : Nil
Name and Designation of Resource Person(s) : Refer attachment (Poster)	
Outcome : The department of Aeronautical Engineering was able to connect to more than 200 professors and researchers around the globe to discuss and disseminate the knowledge and research works of eminent resource persons from India's leading IITs.	
Remarks and Feedback on the Event : The presentation and lecture from the speakers was extraordinary. The participants were able to gain lot of knowledge in the area of material science. The speakers were very much patient and keen in explaining the concepts and clearing the queries from the participants.	
Plan of Implementing in HiCET (if any) : NA	

Signature of the Faculty | HoD | Principal

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PRINCIPAL
Hindusthan College Of Engineering & Technology
COIMBATORE - 641 032.

Program poster/Brochure:

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DEPARTMENT OF AERONAUTICAL ENGINEERING

Organizes

Five day

Faculty Development Program

on

" Advancements in Aerospace Materials: Manufacturing, Testing and Characterization 2.0 "

11 March to 15 March 2024

Scan to register

Virtual Mode

Google Meet

FN Session : 10.30 am to 12.00 pm IST
AN Session : 02.30 pm to 04.00 pm IST

Coordinators	Convenor	Principal	CEO
Prof. Tamilvendan D, AP/AERO Prof. Saravana Kumar V, AP/AERO	Dr. Gopinathan V T HOD/AERO	Dr. Jaya J	Dr. Karunakaran K

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India

DEPARTMENT OF AERONAUTICAL ENGINEERING

Organizes 5 Day Online FDP on

" Advancements in Aerospace Materials: Manufacturing, Testing and Characterization 2.0 "

11 March to 15 March 2024

Scan to register



Dr. SOMNATH CHATTOPADHYAYA
Professor & Head,
Department of Mechanical Engineering
Indian Institute of Technology,
Dhanbad



Dr. RAMACHANDRA BHAT M
Chief Research Scientist
Department of Aerospace Engineering
Indian Institute of Science,
Bengaluru



Dr. SANDIP HALDAR
Associate Professor
School of Mechanical Sciences,
Indian Institute of Technology,
Goa



Dr. CHANDRA SEKHAR TIWARY
Assistant Professor
Metallurgical and Materials Engineering
Indian Institute of Technology,
Kharagpur



Dr. DHIRAJ BISWAS
Post Doctoral Research Scientist
University of Salford,
United Kingdom



Dr. SUSMITA NASKAR
Assistant Professor
Department of Aerospace Engineering
Indian Institute of Technology,
Bombay



Dr. INDRANI SEN
Associate Professor
Metallurgical and Materials Engineering
Indian Institute of Technology,
Kharagpur



Dr. J. BRUCE RALPHIN ROSE
Associate Professor
Mechanical Engineering
Anna University Regional Campus,
Tirunelveli

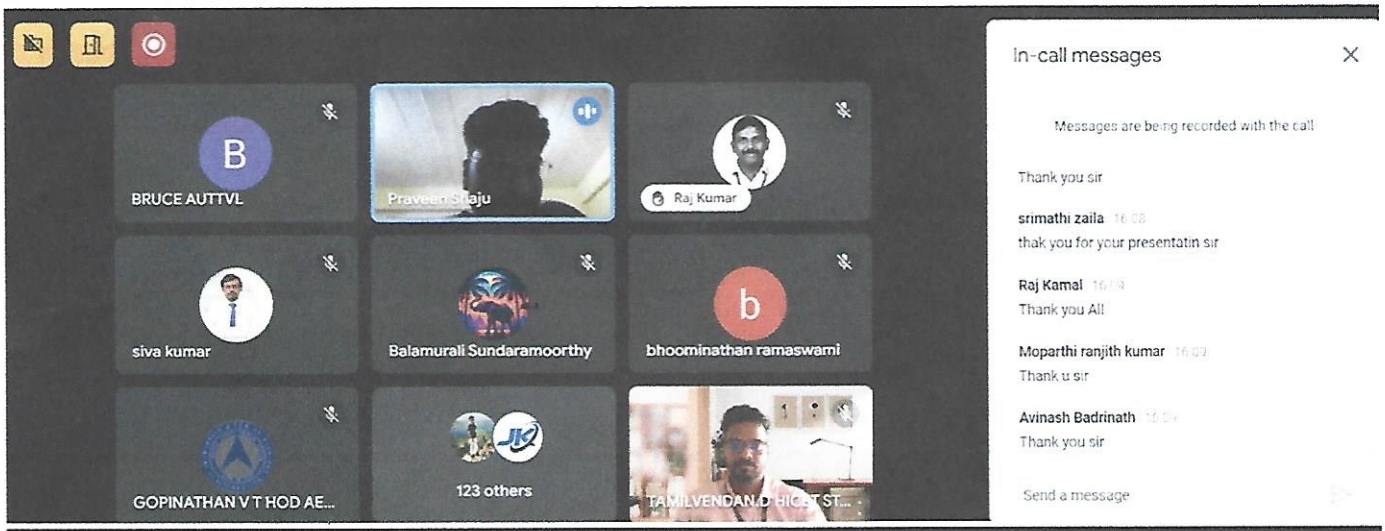


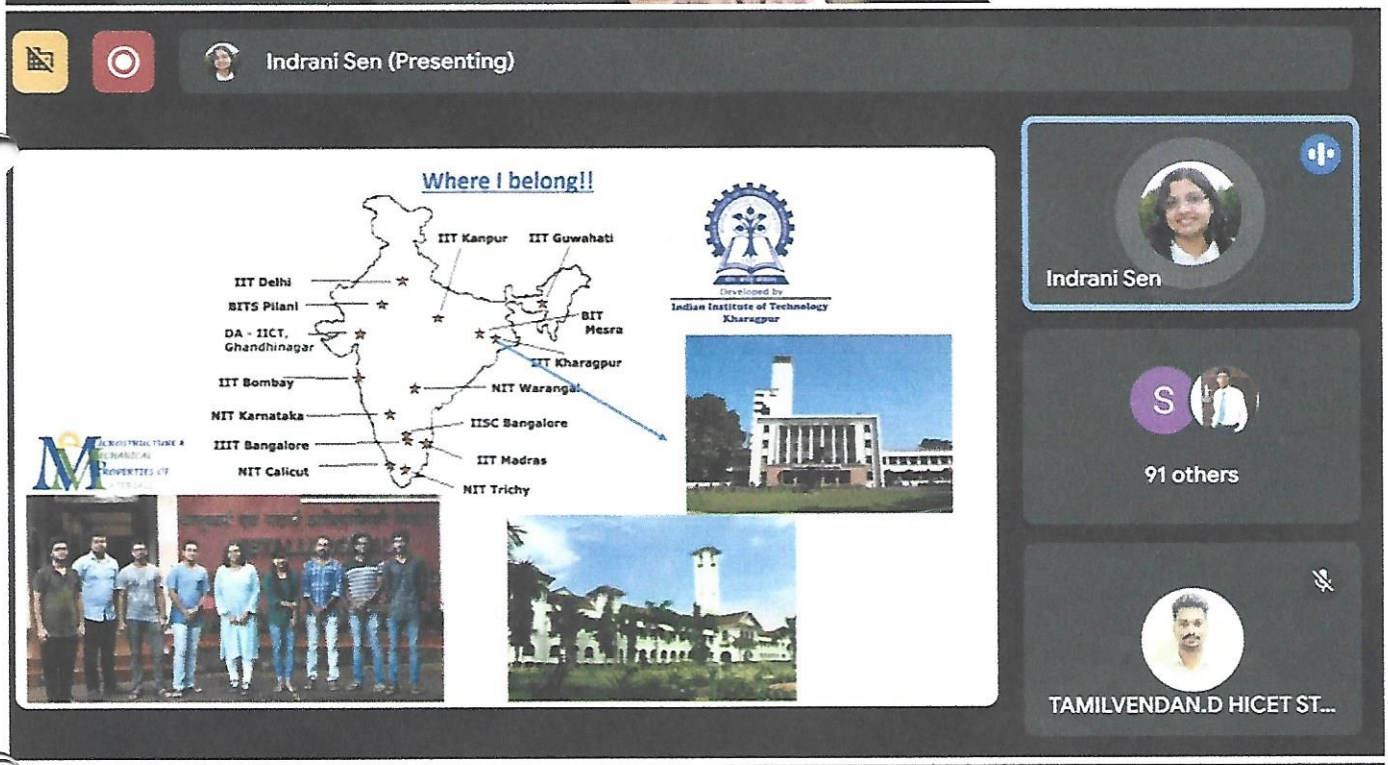
Dr. GURUSIDESWAR S
Assistant Professor
Department of Aerospace Engineering,
SRM Institute of Science& Technology,
Chennai

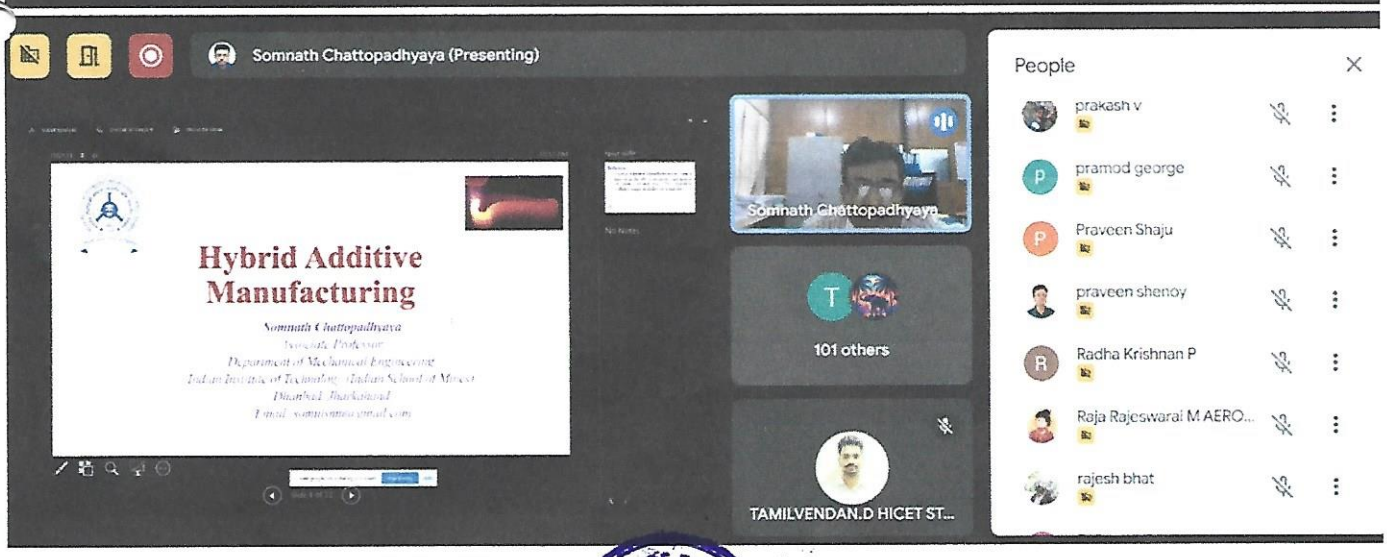


Dr. DEVENDRAN I
Founder & CTO,
SI Advanced Composites,
Chennai

Geo Tagged Photographs of Event – 2 Nos:







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Report for Research Methodology

Name of the Faculty : Mr. MANOJ KUMAR K, Mr. ARULMOZHINATHAN T	
Department : Aeronautical Engineering	Designation : Assistant Professor
Name of the Event : Seminar on " Importance on FEA simulations in product development"	
Level : College level	
Venue / Mode : Ganga Hall / Offline	
No. of Days : 1/2 Day	Dates : 18.03.2024
Funded by : -	
No. of Participants : 142	Registration charges (if any) : - nil
Name and Designation of Resource Person(s): - Mr.Dinesh Kumar Murugan, Team Leader-Simulation, Research and Development, Valeo India Pvt. Ltd. Chennai Mr.Ravichandran Subramani, Team Leader-Simulation, Research and Development, Valeo India Pvt. Ltd. Chennai	
Outcome: ✓ Student have got knowledge about the industrial aspect of FEA. ✓ Students have learned about the role of FEA in project development	
Remarks and Feedback on the Event: ✓ Can be conducted as hands – on training workshop	
Plan of Implementing in HiCET (if any): -	
Signature of the Faculty	HoD/AERO Principal

Copy of the Event Brochure / Invitation:



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DEPARTMENT OF AERONAUTICAL ENGINEERING

Date: 18-03-2024

Importance of FEA simulations in product development

Sl. No.	Reg. No.	Student Name	Signature
1.	20101054	T. SANJAY	
2.	20101053	S. Sanjay	
3.	20101015	Amarthiyasen. JS	
4	20101062	Vengatesan. P	
5.	20101029	V. Guhan	
6.	20101805	JS. Kishore	
7.	20101022	R. DEEPAK RAJ	
8.	20101811	P Praveen Kumar	
9	20101057	M. SELAMBARASAN	
10	20101801	BalaMurugan. R	
11	20101009	Abishek. A	
12	20101020	Ayaaz Ranmavi	
13	20101021	Akash. S	
14	20101046	Praveen. P	
15	20101034	Kavinkumaar. SB	
16	20101061	Thamarai Selvan. P	
17	20101037	S. Jogesh	
18	20101038	Makesh. K	
19.	20101031	R. Hari Prasath	
20.	20101804	M. FARAZ	
21.	720722101014	A. Benadic Richard	
22.	720722101058	S. Jeeva	
23.	720722101043	A. Praveen	
24	720722101041	M.S. Pranav	
25	720722101003	Abishek Ram. N	
26.	720722101059	S. Sivabalan	
27.	720722101022	V. HARI HARAN	
28.	720722101006	B. Anbu Mahadevan	
29.	720722101026	V.A.R. Jeyasuthan	

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Sl. No.	Reg. No.	Student Name	Signature
30	7207221010	ANTONY PACKIA ROSHAN.I	
31	720721101001	Abdul Asif.A	
32	720721101052	Shanmuga Ganbatharane A	
33.	720721101024	Jagan.J	
34.	720721101022	Godwin.V	
35	720721101053	Shyam kumar	
36	720721101055	Surya	
37	720721101031	MADHUGOPAL.S.K	
38.	720721101028	Harivasanth.P	
39	720721101066	YOGESH J	
40.	720721101044	Nisinthkumar S	
41.	720721101014	Bharanidharan S	
42	720721101019	DON.C.ABIRAM	
43	720721101007	Ancilin Bharad.F	
44	720721101034	Mohamed Jafeer	
45	720721101021	Grajendiran.I	
46	720721101004	AJAY.E	
47	720721101040	MUKUNTHAN.T	
48	720721101046	Praveen.V.	
49.	720721101009	Arulselvan.R.	
50	720721101036	Mohammed yasin.K	
51.	720721101035	Mohammed Rashith.	
52.	720721101029	Franeis	
53	720721101038	Ismail	
54	720721101048	RAGHUL V	
55	720721101057	Veeramani.J	
56	720721101042	Navinkumar.A	
57.	720721101015	Bharathi.T	
58	720721101018	Dishanth.K	
59	720721101039	Mohammed Roshan.EK	

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Sl. No.	Reg. No.	Student Name	Signature
60	720721101041	Navin babu	
61	720721101008	ARMEN RITO. S	
62	720721101059	Vijayab. S Kumar	
63	720721101027	V. P Hari haran	
64	720722101036	J.P. Neivarma	
65	720722101054	S. SANKARA MUKESH	
66	720722101037	S. Nikesh Kruthik	
67	720722101044	K. Premshanthan	
68	720722101027	H. JOEL	
69	720722101004	Ahim. J. A	
70	720722101031	Lokesh. M	
71	720722101030	KOWSICK. M	
72	720722101008	ANISH BALULEVAN. M	
73	720722101015	Deepakmurthy. S	
74	720722101001	Abhilash S	
75	720722101024	HARIKESH. T	
76	720722101030	B. Ram prabath	
77	720721101025	Jaiganesh. k	
78	720722101005	Amirthaganeshan. K.	
79	720722101047	Rajapandi P2.	
80	720722101013	Balakrishnan. M	
81	720722101049	Rupa Rabu. M.	
82	720722101057	Saroon Jose O.S	
83	720721102011	DeePak. V	
84	720721102801	Abhishek. T. V	
85	720721102817	B. Sai Kiruthic	
86.	720721102018	V. koushik.	
87.	720721102021	V. Mahendiran	
88.	720721102811	Mesharch Elangi. I	
89	720721102819	Jamil Selvan. P.B	

Sl. No.	Reg. No.	Student Name	Signature
90	720721102807	Jayapal. V	
91	720721102821	S. vigneshkumar	
92	720721102804	G. Theeborooj	
93	720722101055	Saran M S	M. S. Saran
94	720722101046	S Raguramraj	
95	720722101801	A. Karthik Keyan	
96	720722101060	Sivaram. Y	
97	720722101028	Kirubakaran. S. K	
98	720722101056	R. Saran.	
99	720722101025	Harishree S	
100	720722101035	M. Manush Nardhan	
101.	720722101017	Dharanish C	
102	720722101040	D. Prakash	
103	720721101802	Dinesh kumar. M	
104	720721101016	Dhanish L	
105	720721101050	Rizvan ammer	
106	720721101037	Mohammed Hashir	
107	720721101002	Abhinav. C	
108	720721101043	Nidhin Samuel	
109	720721101029	KAMALESH G.V.	G.V.K
110	720721101013	S. Bhagavathi	
111	720721101051	RUPESH. G	
112	720721101054	Sebash. S	Sebash. S.
113	720721101051	Rebesh Kumar K	
114	720721101045	S. Prabhagaran	
115	720721101030	KRISHNAPRASAD. P. B	
116	720721101003	AHAMED YASIN T.S	
117	720721101803	K. VAISNAVAN	
118.	720721101033	Mayil Raj. B	B. Mayil Raj
119.	720721101029	S. Kishothraj	

Sl. No.	Reg. No.	Student Name	Signature
120	720722101020	FARHAN MOHAMMED.D	
121	720722101053	SALAM RAHEES	
122	720722101002	ABIMANAM.S	
123	720721010	ARON GEEVARGHESE	
124	720722101042	Praman S.V	
125	720722101011	Arunkumar P	
126	720722101018	Dharsha. B	
127	20101021	Gayathri D	
128	720721101017	Dharumshya.B	
129	720721101026	Jisna	
130	720721101010	Ashna Antony	
131	720721101012	Athilakshmi	
132	720721101056	Thuviksha	
133	720722101061	Thanushmathi	
134	720722101038	NITHYA.	
135	720722101069	VISHALI. P	
136	720722101045	Priya Mahadev	
137	720722101039	POORVAJA	
138	720722101052	Sajina.S.	
139	720722101033	MADHUMITHA.J	
140	720722101032	LOKESHWARI. S	
141	720722101031	MAHARVENI. M	
142	720721101011	ASHOK.K.S	

Co-ordinator

HOD

Hindusthan
College of Engineering and Technology,
Valley Campus, Pollachi Highway, Coimbatore 641 032.
www.hicet.ac.in

Report for Capacity Development Program for
Non-Teaching Staffs – "Life Skills and Human values"

Name of the Faculty : Mr KATHIRVEL K	
Department : Aeronautical Engineering	Designation : Assistant Professor
Name of the Event : **Capacity Development Program for Non-Teaching Staffs – "LIFE SKILLS AND HUMAN VALUES"**	
Level : Institution level	
Venue / Mode : Aero Department Structures Lab / DIRECT	
No. of Days : 1 Day	Dates : 09.01.2024
Funded by : College Management	
No. of Participants : 33	Registration charges (if any) : - Nil
Name and Designation of Resource Person(s): - Mr.Senthilkumar K, Member Secretary, Aalam Viluthukal Arakkattalai, Pollachi	
Outcome: ✓ Staffs are actively Participated ✓ Staffs are enlightened with importance of life skills ✓ Staffs are strengthened with ethics and morals of human life ✓ Staffs are reinforced with the Stages and significances of human values	
Remarks and Feedback on the Event: Very useful and materialistic for everyone It will help everyone in the society to improve the cardial relation among the people	
Plan of Implementing in HiCET (if any): -	
Signature of the Faculty HoD/AERO Principal	

Department of Aeronautical Engineering HICET

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Department of Aeronautical Engineering

Capacity Development Program for Non-Teaching Staffs – "Life Skills and Human Values"

Guest speaker

MR.SENTHILKUMAR K
Member Secretary,
Aalam Viluthukal
Arakkattalai,
Pollachi

Date: 09.01.2024 Time: 09.30 pm to 12.30 pm

Co-ordinator
Mr. KATHIRVEL K
AP/AERO

Convenor
Dr. Gopinathan V T
HoD

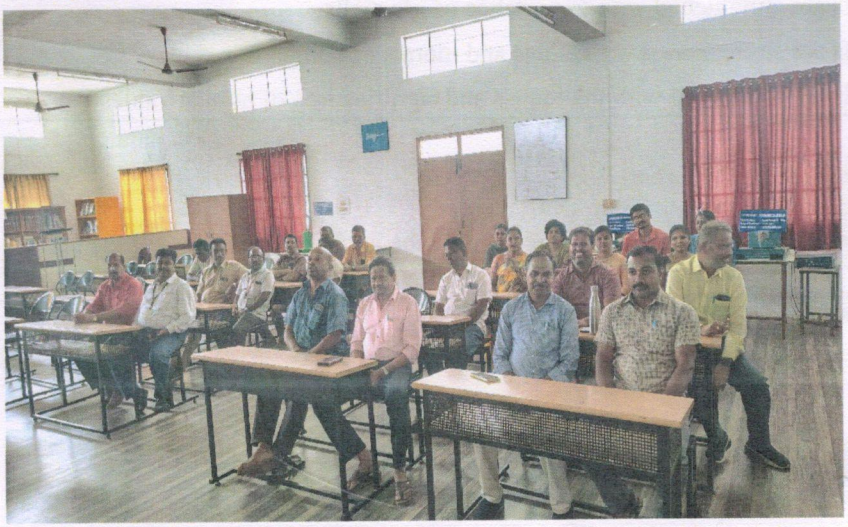
PATRONS

Dr. J Jaya
PRINCIPAL

Dr. Karunakaran K
CEO – HEI

Photographs of Event – 2 Nos:





Department of Aeronautical Engineering HICET

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DEPARTMENT OF AERONAUTICAL ENGINEERING

Capacity Development Program for
Non-Teaching Staffs – Life Skills and Human values

09/01/2024.

ATTENDANCE SHEET

S.No	NAME OF THE STAFF	DEPARTMENT	SIGGNATURE
1.	Karthick.s	CSE	
2.	M. Mohammed Ali Jinna.	CSE	
3.	R. Lakshmanan	CR	
4.	J. Sathishkumar	EEE	
5.	A. Sundar Swamy	EEE	
6.	S. Subburaj	Transport	
7.	A. Manikandan	Mech	
8.	DHARMAN J	Transport	
9.	P. Dawin Clery	Agri	
10.	S. Muniasamy	ECE	
11.	A. RAVI KUMAR	DRiver.	
12.	A. Murugan	AERO	
13.	S. ARUNKUMAR	MCT	
14.	P. SIVAKUMAR	MECH	
15.	P. Muthayasami	Civil	
16.	T. Ramesh	Library	
17.	S. Rajendran	Mech	
18.	P. ARUN KUMAR.	MECH	
19.	R. KRISHNAN	Aero	
20.	D. PREM KUMAR	MCT	

Department of Aeronautical Engineering HICET

21	MARIMUTHU. S	IT	S. Murthe
22.	K. Chockkanna	EIE	K. Chockkanna
23.	Uma maheswaric	ECE	Uma maheswaric
24.	D. ASWINI	CHEMICAL	
25	M. Geethanjali	Civil	M. Geeth
26.	M. Jeeva.	E.T	M. Jeeva.
27.	S Senthilkumar	Aero	
28	P. PUGALMANI	CR	
29	MANIKANDAN. R	ECE	
30	S. VARADARAJAN	EEE	S. Varadarajan.
31	N. Nagaraj	AEML	N. Nagaraj
32	ASHOK KUMAR. D	MCA	
33	P. MANI	MBA	

Faculty coordinator.
ATHIRVEL
AP/AERO

HOD/AERO

Department of Aeronautical Engineering
MICET

Hindusthan
College of Engineering and Technology,
Valley Campus, Coimbatore 641 032.

HICET **www.hicet.ac.in**

Report for One day Training for HICET – Automobile –Eicher Training Centre

Name of the Faculty : Mr.R.S.Prakash, Mr.G.Prabhu	
Department :Automobile Engineering	Designation :Assistant Professor
Name of the Event : Fault Diagnoses and Engine Code Reading Using OBD Tool Hands On Training	
Level : College Level	
Mapping with UN SDGs (Tick the relevant):No poverty **(SDG 1)**, Zero hunger **(SDG 2)**, Good health and well-being **(SDG 3)**, **Quality education (SDG 4)**, Gender equality **(SDG 5)**, Clean water and sanitation **(SDG 6)**, Affordable and clean energy **(SDG 7)**, Decent work and economic growth **(SDG 8)**, Industry, innovation and infrastructure **(SDG 9)**, Reduced inequalities **(SDG 10)**, Sustainable cities and communities **(SDG 11)**, Responsible consumption and production **(SDG 12)**, Climate action **(SDG 13)**, Life below water **(SDG 14)**, Life on land **(SDG 15)**, Peace, justice, and strong institutions **(SDG 16)**, and Partnerships for the goals **(SDG 17)**.	
Venue / Mode: Hicet - Physical Mode	
No. of Days :01	Dates : 05.08.2024
Funded by :Management	
No. of Participants : 16	Registration charges (if any) : Nil
Name and Designation of Resource Person(s) : Mr.Sivakumar, Training Head, Mr.Manikadan Trainer, Eicher Regional Training Centre,HICET,Coimbatore	
Outcome : • Trainees have learned about OBT Tool. • Live demonstration given in Eicher Regional training centre,HICET	
Remarks and Feedback on the Event: They are inspired by seeing the latest lab equipments and current updates in Eicher Motors	
Plan of Implementing in HiCET (if any) : Organized by HICET - Department of Automobile Engineering	

Signature of the Faculty

HoD

Principal

PRINCIPAL
Hindusthan College Of Engineering & Technol
COIMBATORE - 641 032.

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COLLEGE OF ENGINEERING AND TECHNOLOGY

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Valley Campus, Pollachi Highway, Coimbatore - 641032

A NAAC

DEPARTMENT OF AUTOMOBILE ENGINEERING

Organizes

Professional Development Programe

On

Fault Diagnoses and Engine Code Reading using OBD Tool Hands on Training



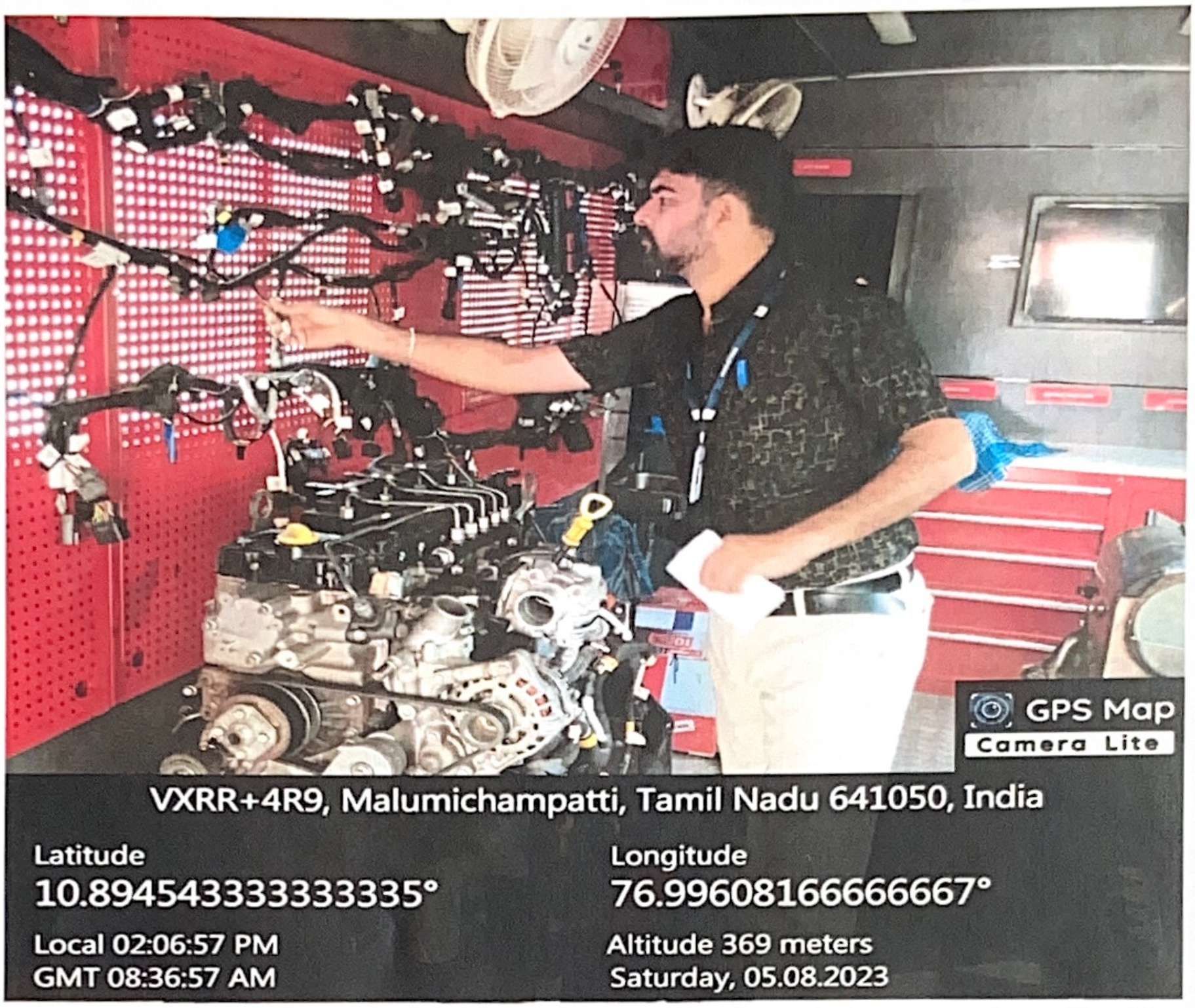
Date:5.8.2023 Time: 9.30 am

Venue: Hindusthan Volvo Eicher RCDC

Patrons	*Convener*	*Coordinator*
Dr Karunakaran K, CEO	*Dr Sabarinathan C*	*Prof. Prakash R S*
Dr Jaya J, Principal	*Head of the Department*	*Assistant Professor*

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HINDUSTHAN
COLLEGE OF ENGINEERING AND TECHNOLOGY
(An Autonomous Institution)
Coimbatore - 641 032

DEPARTMENT OF AUTOMOBILE ENGINEERING

FAULT DIAGNOSES AND ENGINE CODE READING USING OBD TOOL HANDS ON TRAINING

Date:- 05.08.2023

S.No	Name	Department	Signature
1.	MUJIBURRAHMAN.M	AUTOMOBILE	
2	K. Sathees Kumar	Automobile	
3.	S. SIVAKUMAR	Mechanical	
4.	C. A. JAGADISH	MECHANICAL	C. A. Jagadish
5.	Dr. KANNAN	Mechanical	
6	A. Sasikumar	Mech	
7.	Dr. L. Karthick	Mech	
8.	T. Arulmoorthy	Aero.	
9	K. MANOJ KUMAR	Aero	
10.	M. Magesh Kumar	Aero.	
11.	Dr. M. Arunkumar	MCT	
12.	T. Prabhu	MCT	
13.	S. Prem Anand	MCT	
14	A. Khafarafurmudeen	EEE	
15	G. Prabhu	Auto	
16	Prakash R S	AUTO	
.			

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College of Engineering and Technology,
Valley Campus, Coimbatore 641 032.

www.hicet.ac.in

Report for One day Training for HICET – Automobile –Eicher Training Centre

Name of the Faculty : Mr.R.S.Prakash	
Department :Automobile Engineering	Designation :Assistant Professor
Name of the Event : Hands on Training on Sensor and Its Functional Applications	
Level : College Level	
Mapping with UN SDGs (Tick the relevant):No poverty **(SDG 1)**, Zero hunger **(SDG 2)**, Good health and well-being **(SDG 3)**, **Quality education (SDG 4)**, Gender equality **(SDG 5)**, Clean water and sanitation **(SDG 6)**, Affordable and clean energy **(SDG 7)**, Decent work and economic growth **(SDG 8)**, Industry, innovation and infrastructure **(SDG 9)**, Reduced inequalities **(SDG 10)**, Sustainable cities and communities **(SDG 11)**, Responsible consumption and production **(SDG 12)**, Climate action **(SDG 13)**, Life below water **(SDG 14)**, Life on land **(SDG 15)**, Peace, justice, and strong institutions **(SDG 16)**, and Partnerships for the goals **(SDG 17)**.	
Venue / Mode: Hicet - Physical Mode	
No. of Days :01	Dates : 14.09.2023
Funded by :Management	
No. of Participants : 13	Registration charges (if any) : Nil
Name and Designation of Resource Person(s) : Mr.Sivakumar, Training Head, Mr.Manikadan Trainer, Eicher Regional Training Centre,HICET,Coimbatore	
Outcome : • Trainees have learned about on Sensor and Its Functional Applications • Live demonstration given in Eicher Regional training centre,HICET	
Remarks and Feedback on the Event: They are inspired by seeing the latest lab equipments and current updates in Eicher Motors	
Plan of Implementing in HiCET (if any) : Organized by HICET - Department of Automobile Engineering	

Signature of the Faculty 14/9/23

HoD 14/9/23

Principal

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PRINCIPAL
Hindusthan College Of Engineering & Technolog
COIMBATORE - 641 032.

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COLLEGE OF ENGINEERING AND TECHNOLOGY

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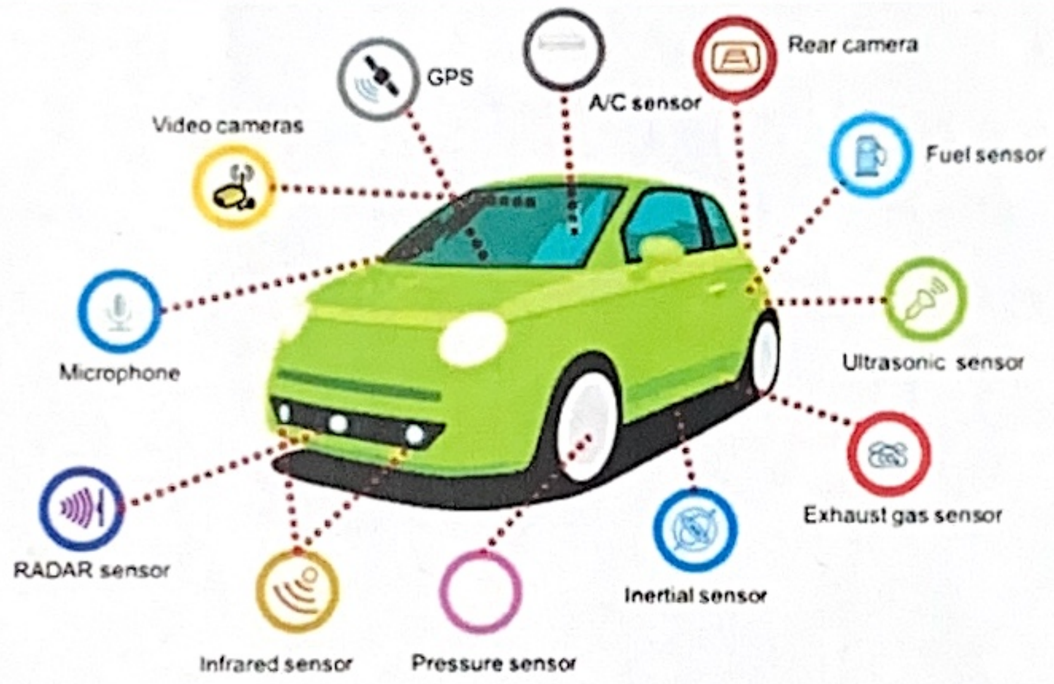
A NAAC

DEPARTMENT OF AUTOMOBILE ENGINEERING

Organizes

Administrative Training Programme for Supporting Staff

Hands on Training in Vehicle Sensors and its Functional Applications



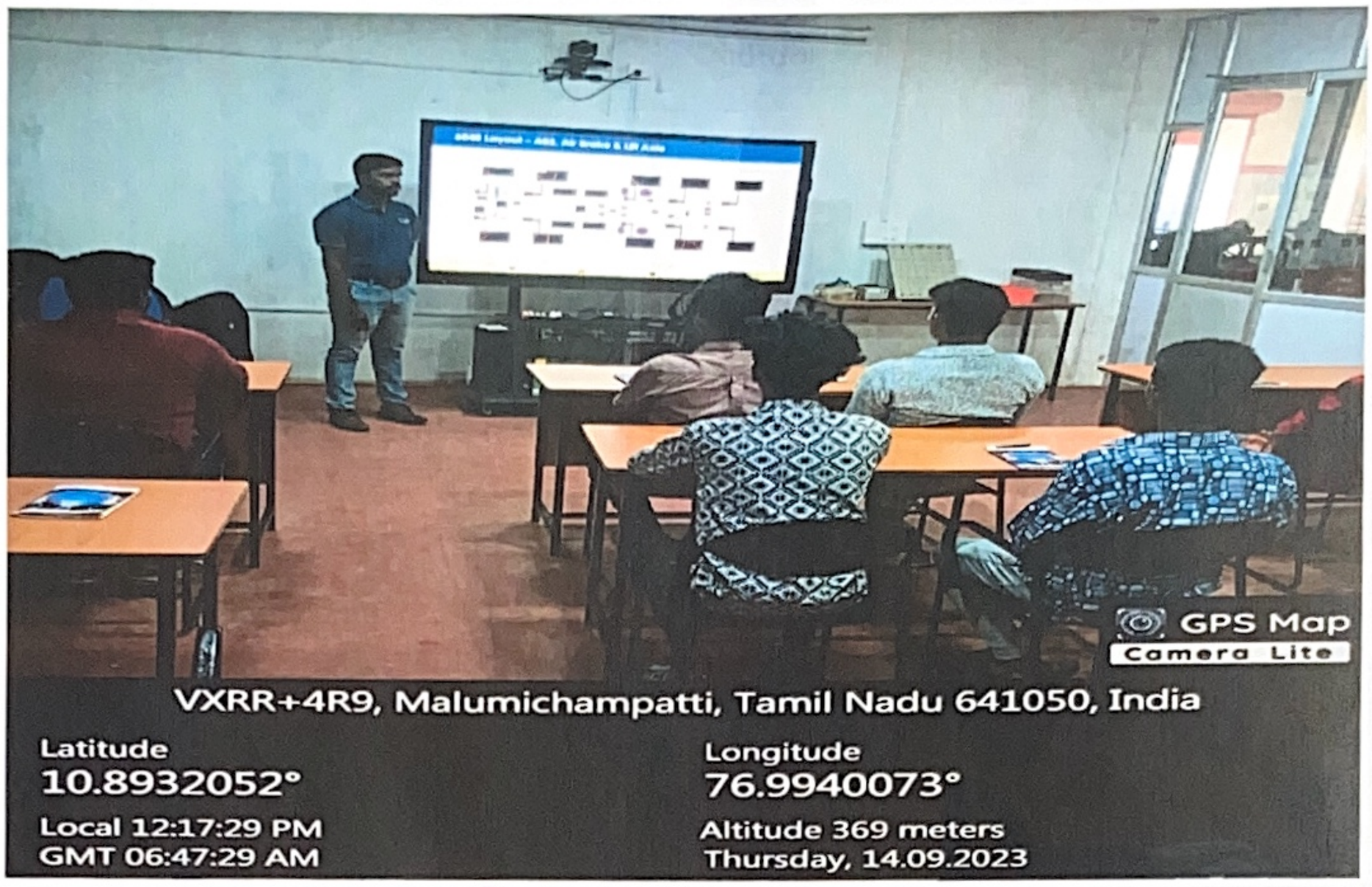
Date: 14.9.2023 Time: 9.30 am to 4.30 pm

Venue: Hindusthan Eicher RCDC

Patrons	*Convener*	*Coordinator*
Dr Karunakaran K, CEO	*Dr Sabarinathan C*	*Mr Prakash R S*
Dr Jaya J, Principal	*Head of the Department*	*Assistant Professor*

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(An Autonomous Institution)
Coimbatore - 641 032

DEPARTMENT OF AUTOMOBILE ENGINEERING

HANDS ON TRAINING ON SENSOR TECHNOLOGY OF VEC

Date:- 14.09.2023

S.No	Name	Department	Signature
1	S. Rajendran	Mech	
2.	J. M. Bruneshwar	Auto	
3	R. Mohanasundaram	MECH	
4	P. SIVAKUMAR	MECH	
5.	P. ARUN KUMAR.	MECH	
6	R KRISHNAN	AERO	
7	G.A. Murugan	AERO	
8	S. ARUNKUMAR	MCT	
9.	D. PREM KUMAR	MCT	
10.	M. Aravindan.	MCT	
11	A. Manikandan	mech	
12.	K. Aravindhan	MCT	
13.	S.T. JEEVARATHAN	MECH	

Hindusthan
College of Engineering and Technology,
Valley Campus, Coimbatore 641 032.

HICET www.hicet.ac.in

Report for One day Training for HICET – Automobile –Royal Enfield Training Centre

Name of the Faculty : Mr.Prabhu G	
Department :Automobile Engineering	Designation :Assistant Professor
Name of the Event : Study of Engine and Transmission System of Twin Cylinder 650cc	
Level : College Level	
Mapping with UN SDGs (Tick the relevant):No poverty **(SDG 1)**, Zero hunger **(SDG 2)**, Good health and well-being **(SDG 3)**, **Quality education (SDG 4)**, Gender equality **(SDG 5)**, Clean water and sanitation **(SDG 6)**, Affordable and clean energy **(SDG 7)**, Decent work and economic growth **(SDG 8)**, Industry, innovation and infrastructure **(SDG 9)**, Reduced inequalities **(SDG 10)**, Sustainable cities and communities **(SDG 11)**, Responsible consumption and production **(SDG 12)**, Climate action **(SDG 13)**, Life below water **(SDG 14)**, Life on land **(SDG 15)**, Peace, justice, and strong institutions **(SDG 16)**, and Partnerships for the goals **(SDG 17)**.	
Venue / Mode: Hicet - Physical Mode	
No. of Days :01	Dates : 16.04.2024
Funded by :Management	
No. of Participants : 16	Registration charges (if any) : Nil
Name and Designation of Resource Person(s) : Mr. Sam Bijo , Training Head, Mr.subash R Royal Enfield Training Centre,HICET,Coimbatore	
Outcome : • Trainees have learned about Twin Cylinder 650cc • Live demonstration given in Royal Enfield training centre,HICET	
Remarks and Feedback on the Event: They are inspired by seeing the latest lab equipments and current updates in Royal Enfield	
Plan of Implementing in HiCET (if any) : Organized by HICET - Department of Automobile Engineering	

Signature of the Faculty

HoD 16/4/24

Principal

PRINCIPAL
Hindusthan College Of Engineering & Technology
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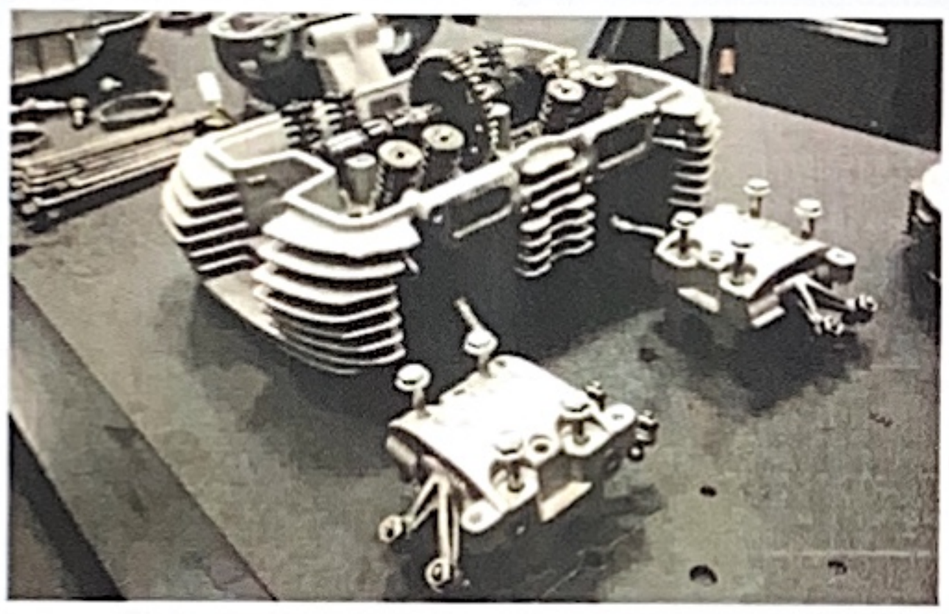
A++ NAAC

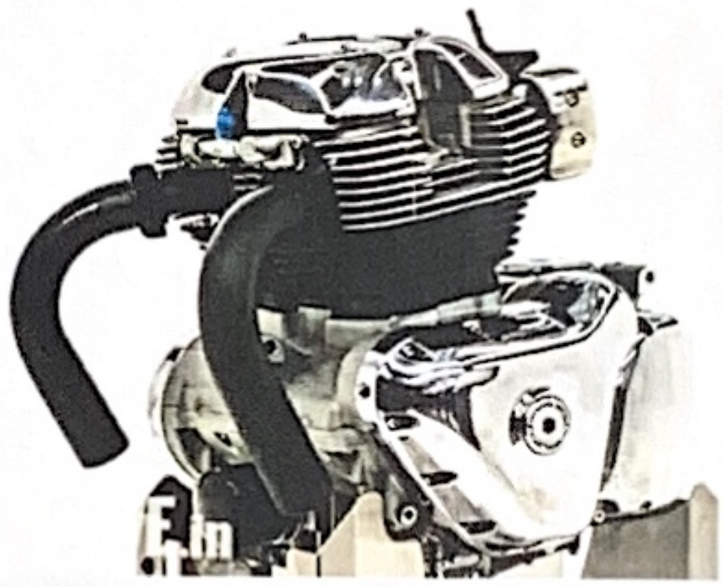
DEPARTMENT OF AUTOMOBILE ENGINEERING

Organizes

Professional Development Programme for Faculty Members

Study of Engine and Transmission System of Twin Cylinder 650CC





Date:16.4.2024 Time: 9.30 am to 4.30 pm

Venue: Hindusthan Royal Enfield Center of Excellence

Patrons	*Convener*	*Coordinator*
Dr Karunakaran K, CEO	*Dr Sabarinathan C*	*Dr Krishnaraj J*
Dr Jaya J, Principal	*Head of the Department*	*Assistant Professor*

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(An Autonomous Institution)
Coimbatore - 641 032

DEPARTMENT OF AUTOMOBILE ENGINEERING

STUDY OF ENGINE AND TRANSMISSION SYSTEM OF TWIN CYLINDER 650CC

Date:- 16.04.2024

S.No	Name	Department	Signature
1.	S. Sivakumar	Mechanical	
2.	T. Prabhu	Mech	
3.	G. Prabhu	Auto	
4.	C.A. JAGADISH	MECH	
5	MUJIBURRAHMAN K	AUTO	
6	J. Krishnamoorthi	Auto	
7.	K. Sathees Kumar	AUTO	
8.	S. RAM	AUTO	
9.	MANOJ KUMAR. R	Aero	
10.	A. Sivakumar.	Mech.	
11.	M. Magesh Kumar	Aero	
12.	Dr. L. Karthik	mech.	
13.	G. Thilak.	MCT	
14	Dr. M. Arunkumar	MCT	
15	Dr. T. Vandarkuzhali	MCT	
16	M. Karthikeyan	MCT	

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HICET **www.hicet.ac.in**

Report for One day Training for HICET – Automobile –Royal Enfield Training Centre

Name of the Faculty : Mr.Prabhu G, Prakash R S	
Department :Automobile Engineering	Designation :Assistant Professor
Name of the Event : Training on service station and workshop layout of Royal Enfield	
Level : College Level	
Mapping with UN SDGs (Tick the relevant):No poverty **(SDG 1)**, Zero hunger **(SDG 2)**, Good health and well-being **(SDG 3)**, **Quality education (SDG 4)**, Gender equality **(SDG 5)**, Clean water and sanitation **(SDG 6)**, Affordable and clean energy **(SDG 7)**, Decent work and economic growth **(SDG 8)**, Industry, innovation and infrastructure **(SDG 9)**, Reduced inequalities **(SDG 10)**, Sustainable cities and communities **(SDG 11)**, Responsible consumption and production **(SDG 12)**, Climate action **(SDG 13)**, Life below water **(SDG 14)**, Life on land **(SDG 15)**, Peace, justice, and strong institutions **(SDG 16)**, and Partnerships for the goals **(SDG 17)**.	
Venue / Mode: Hicet - Physical Mode	
No. of Days :01	Dates : 21.05.2024
Funded by :Management	
No. of Participants : 16	Registration charges (if any) : Nil
Name and Designation of Resource Person(s) : Mr. Sam Bijo , Training Head, Mr.subash R Royal Enfield Training Centre, HICET,Coimbatore	
Outcome : • Staff gained knowledge about service station and workshop layout. • A live demonstration was conducted at the Royal Enfield Training Centre, HICET •	
Remarks and Feedback on the Event: They are inspired by seeing the latest lab equipments and current updates in Royal Enfield	
Plan of Implementing in HiCET (if any) : Organized by HICET - Department of Automobile Engineering	

Signature of the Faculty 21/5/24

HoD 21/5/24

Principal

PRINCIPAL
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COLLEGE OF ENGINEERING AND TECHNOLOGY
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A++ NAAC

DEPARTMENT OF AUTOMOBILE ENGINEERING

Organizes

Administrative Training Programme for Supporting Staff in Entrepreneur Perspective

Training on Service Station and Workshop Layout of Royal Enfield



Date: 21.5.2024 Time: 9.30 am to 4.30 pm

Venue: Hindusthan Royal Enfield Centre of Excellence

Patrons	*Convener*	*Coordinator*
Dr Karunakaran K, CEO	*Dr Sabarinathan C*	*Dr Krishnaraj J*
Dr Jaya J, Principal	*Head of the Department*	*Assistant Professor*

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Coimbatore - 641 032

DEPARTMENT OF AUTOMOBILE ENGINEERING

TRAINING ON SERVICE STATION AND WORKSHOP LAYOUT OF ROYAL ENFIELD

Date:- 21.05.2024

S.No	Name	Department	Signature
1.	P. SIVAKUMAR	MECH	P. Sivakumar
2.	Senthi Kumar	Auto	
3.	P ARUN KUMAR	MECH	P. Arun
4.	R. KRISHNAN	Aero	R. Krish
5	M. Aravindan	MCT	
6	J. M. Buvaneshwar	Auto	
7.	S. T. JESURAJAN	MECH	S.T. J.
8.	G. A. Murugan	Aero	
9.	Rajendran	Mech	
10.	Dinesh.	Auto	
11.	S. Arunkumar	MCT	
12	R. MohanaSundaram	Mech	
13	D. PREM KUMAR	MCT	
14.	S. VARADARAJAN	EEE	S. Varadarajan
15	A. Sunder Swamy	EEE	
16	L. Sathish Kumar	EEE	
17	—	—	—

HINDUSTHAN COLLEGE OF ENGG & TECH

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Report of "Faculty Development Program on Cloud Infrastructure (AWS)" in association with BRAIN O VISION, AICTE and Ministry of Education

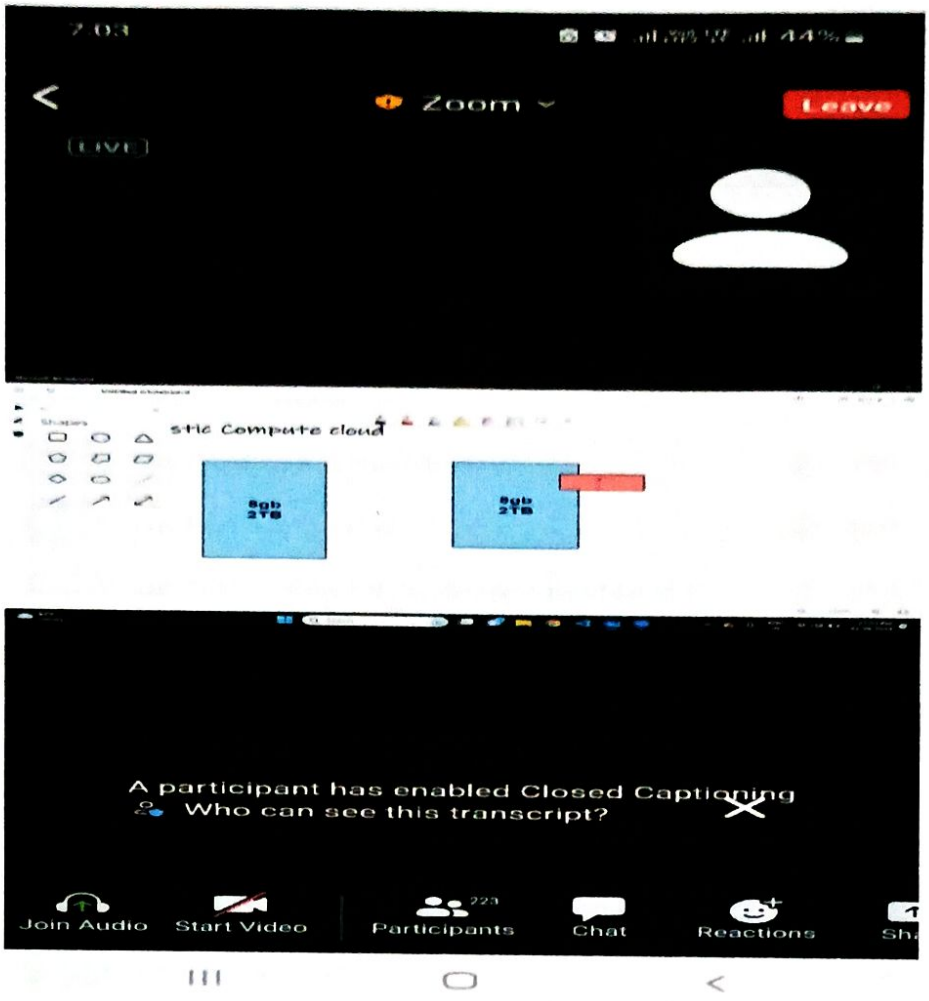
Name of the Faculty: Dr Beaulah David , Ms.Priyadharshini T R, Ms Masilamani M	
Department: Information Technology	Designation: Associate Professor, Assistant Professor, Assistant Professor
Name of the Event: **"Faculty Development Program on Cloud Infrastructure (AWS)" in association with BRAIN O VISION, AICTE and Ministry of Education**	
Level: National Level	
Venue: online	
No. of Days: 5	Date:21.08.2023 to 25.08.2023
Fundedby: NIL	
No. of Participants:216	Registration charges (if any): Rs.9/-
Name and Designation of Resource Person: Dr. Buddha Chandrashekhar Chief Coordinating officer, AICTE.	
Outcome: Participants acquired Knowledge: 1. Participants gain comprehensive knowledge about cloud infrastructure, particularly AWS, covering scalability, reliability, cost-effectiveness, security features, and automation tools. 2. This equips them with a deep understanding of cloud computing concepts and practical skills essential for modern technology environments.	
Remarks and Feedback on the Event: • Participants commended the clarity and relevance of the content, particularly appreciated the practical examples and real-world applications.	
Plan of Implementing in HiCET (if any): Nil	

Signature of the Faculty **HoD** **Principal**

Copy of the Event Brochure / Invitation:



Photographs of Event – 2 Nos:





FACULTY DEVELOPMENT PROGRAM ON CLOUD INFRASTRUCTURE (AWS) - DAY 5

Total Number of Participants:



Sample Certificates:



CERTIFICATE OF PARTICIPATION

PROUDLY PRESENTED TO

Dr Mythily M

Karunya Institute of Technology and Science, Coimbatore

has successfully participated in the

One Week National Level Faculty Development Program on Cloud Infrastructure (AWS)

organized by **HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, Tamil Nadu**

in collaboration with **Brainovision Solutions India Pvt Ltd**

and **All India Council for Technical Education (AICTE)**

During the period of **21st to 25th August 2023.**

We commend your dedication to enhancing your knowledge in

cloud infrastructure and AWS technologies.

Your active participation and engagement during the program have contributed to its success.

GANESH NAG DODDI

Dr Beaulah David

Dr M. Sabrigiraj

Dr. J. JAYA

DR. BUDDHA CHANDRASHEKHAR



CERTIFICATE OF PARTICIPATION

PROUDLY PRESENTED TO

Mr Rajkumar M

JCT College of Engineering and Technology , Coimbatore

has successfully participated in the

One Week National Level Faculty Development Program on Cloud Infrastructure (AWS)

organized by **HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, Tamil Nadu**

in collaboration with **Brainovision Solutions India Pvt Ltd**

and **All India Council for Technical Education (AICTE)**

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GANESH NAG DODDI

Dr Beaulah David

Dr M. Sabrigiraj

Dr. J. JAYA

DR. BUDDHA CHANDRASHEKHAR

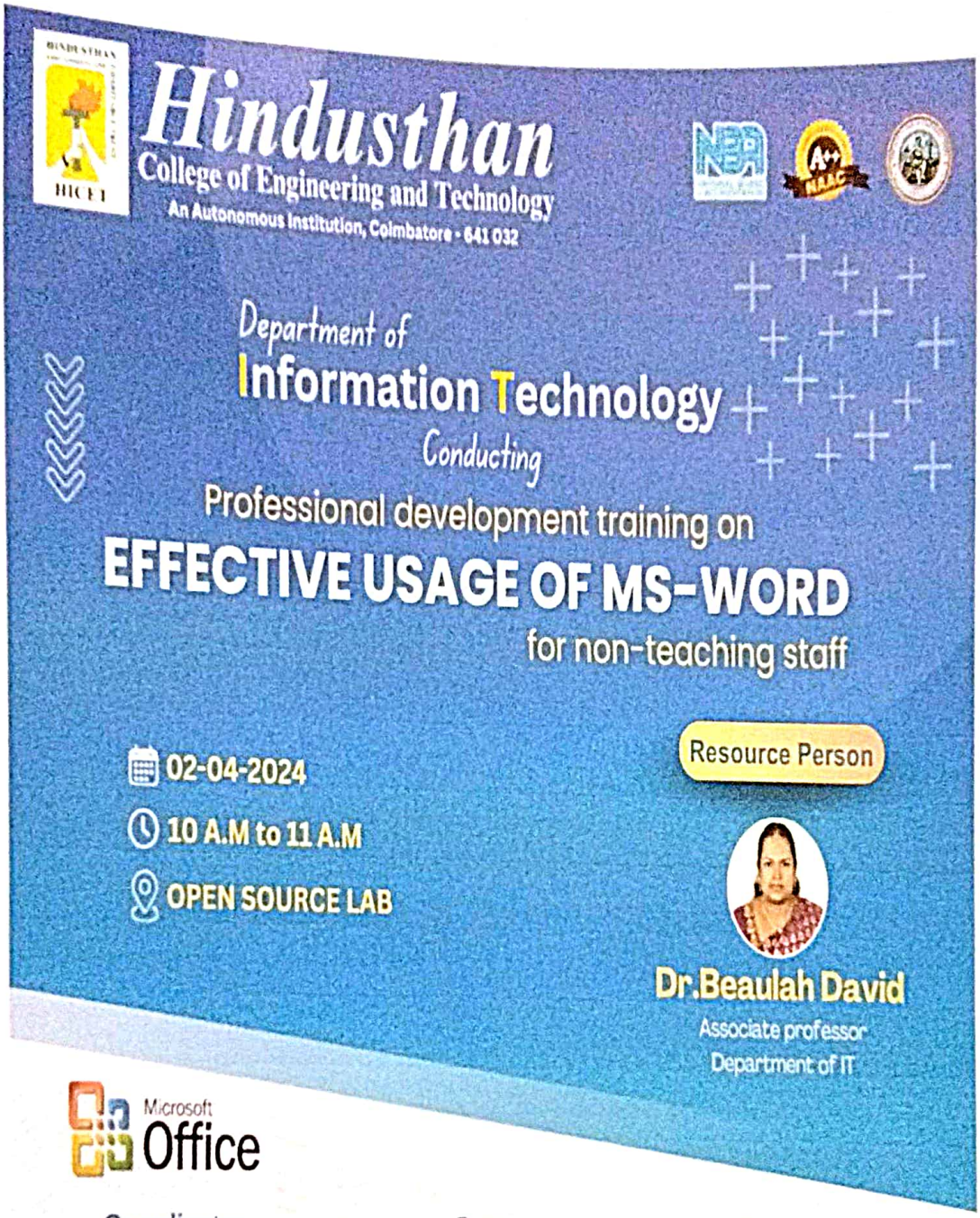
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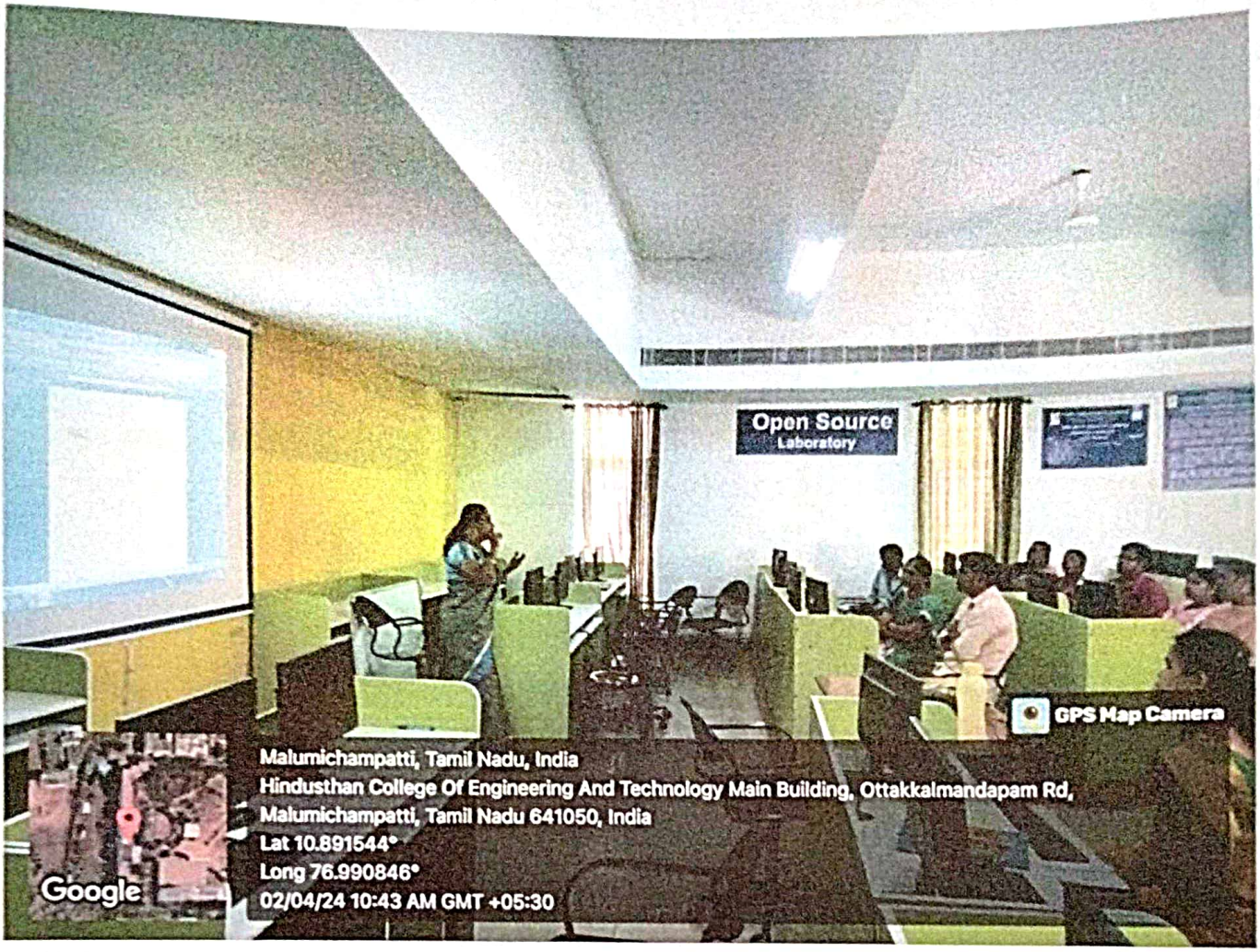
Report for Professional Development Training On"Effective Usage Of Ms-Word For Non Teaching Staffs organized

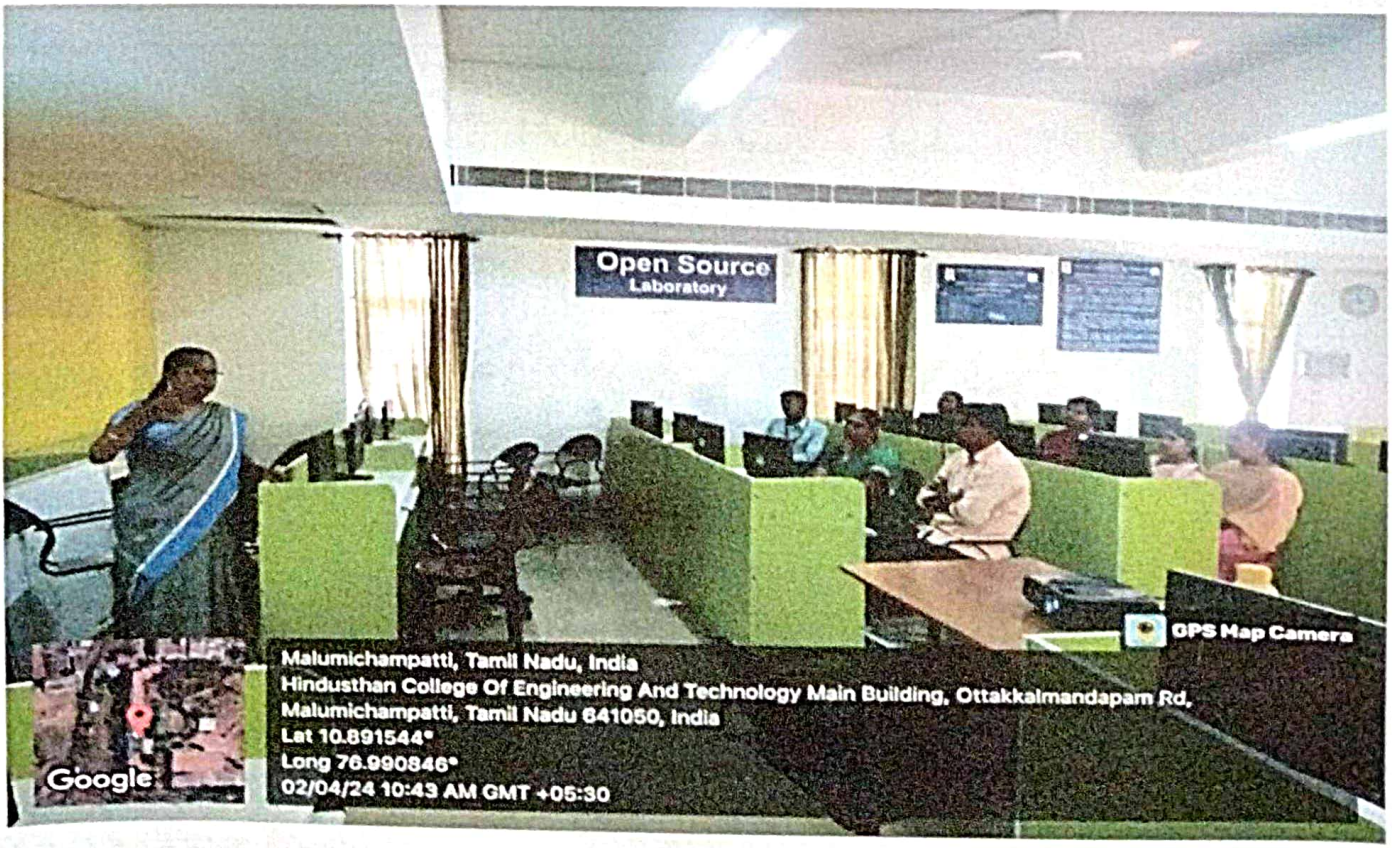
Name of the Faculty :Ms. S ATHIRA, Ms. M MASILAMANI	
Department :INFORMATION TECHNOLOGY	Designation :ASSISTANT PROFESSOR
Name of the Event: **Professional Development Training On "Effective Usage Of Ms-Word For Non Teaching Staffs**	
Level :	**College Level**
Mapping with UN SDGs (Tick the relevant):No poverty **(SDG 1)**, Zero hunger **(SDG 2)**, Good health and well-being **(SDG 3)**, Quality education **(SDG 4)**, Gender equality **(SDG 5)**, Clean water and sanitation **(SDG 6)**, Affordable and clean energy **(SDG 7)**, Decent work and economic growth **(SDG 8)**, Industry, innovation and infrastructure **(SDG 9)**, Reduced inequalities **(SDG 10)**, Sustainable cities and communities **(SDG 11)**, Responsible consumption and production **(SDG 12)**, Climate action **(SDG 13)**, Life below water **(SDG 14)**, Life on land **(SDG 15)**, Peace, justice, and strong institutions **(SDG 16)**, and Partnerships for the goals **(SDG 17)**.	
Venue / Mode: OPENSOURCE LAB / OFFLINE	
No. of Days :1	Dates : 02-04-2024
Funded by : nil	
No. of Participants :31	Registration charges (if any) :nil
Name and Designation of Resource Person(s) : Dr Beaulah David Associate professor/IT HiCET,Coimbatore	
Outcome : • All Non Teaching Staffs Members were got knowledge on Ms-Word. • Table preparation and charts were taught to the staff members.	
Remarks and Feedback on the Event: • All staff members were interested to learn more about office tools. • They can make documents regarding academics using Ms-Word.	
Plan of Implementing in HiCET (if any) : • By next Academic Year should we conduct an event with any other tools which is useful for Non Teaching staff members.	
Signature of the Faculty	HoD / Principal

Copy of the Event Brochure / Invitation:



Geo Tagged Photographs of Event – 2 Nos:





CERTIFICATE

Of Participation

This Certificate is Proudly Presented to :

Gowthamy

For Participating on the event "PROFESSIONAL DEVELOPMENT TRAINING ON "EFFECTIVE USAGE OF MS-WORD FOR NON TEACHING STAFFS" organized bt the Department Of Information technology on 02 April, 2024.

Co-ordinators
Athira S,Masilamani M
AP/IT

HoD
Dr.Sabrigiriraj
IT

CERTIFICATE

Of Participation

This Certificate is Proudly Presented to :

Sundhar Swamy A

For Participating on the event "PROFESSIONAL DEVELOPMENT TRAINING ON "EFFECTIVE USAGE OF MS-WORD FOR NON TEACHING STAFFS" organized bt the Department Of Information technology on 02 April, 2024.

Co-ordinators
Athira S,Masilamani M
AP/IT

HoD
Dr.Sabrigiriraj
IT

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Valley Campus, Pollachi Highway, Coimbatore 641032.| www.hicet.ac.in |

DEPARTMENT OF INFORMATION TECHNOLOGY
PROFESSIONAL DEVELOPMENT TRAINING ON"EFFECTIVE USAGE OF MS-WORD FOR NON TEACHING STAFFS
ATTENDANCE SHEET-2/4/2024

S.No	Name of the Participant	Department	Signature
1.	Sundar Swamy A	EEE	
2.	R. Sivasankari	EEE	R. Sivasankari
3.	S. Sivaranjani	BME	S. S
4.	M. Nandhini Devi	AGRI	M. Nandhini
5.	S. Mohamed Abdullah	AGRI	S. Mohamed Abdullah.
6.	S. VARADARAJAN	CSE	S. Varadarajan
7.	S Deepa	Chemical	S Deepa
8.	N. Thillainayaki	IT	N. Thy.
9.	D ASWINI	Chemical	
10.	S. Ambiga	BCE	
11.	Uma maheswari	ECE	Uma maheswari
12.	M. Geethanjali	Civil	M. Geethanjali
13.	S.T. JESURATHAN	MECH	S.T.
14.	M.NIJAYAKUMAR	Civil	M. Vijayakumar.
15.	M. Jeeva	food	M. Jeeva.
16.	N. Nagaraj	Civil	N. Nagaraj
17.	D. Ashok Kumar	MCA	
18.	S MARIMUTHU	IT	S. Muthu
19.	K. Gowthamy	EIE	K. Gowthamy.
20.	P. SIVAGNESH	F.T	P. Sivagnesh
21.	S. ARUNKUMAR	M.C.T	S. Arunkumar
22.	Mohd. Ali Jinnah	CSE	

23.	A. GANESHAN	CSE	A. G
24.	S. Karthi	CM	
25.	K. Abinaya	Auto	K. Abi
26.	D. Shanmi	S&H	
27.	Shalini	Admin	Shalini
28.	D. Rajalakshmi	Admin	D. R
29.	P. Jenish Bharathi	HR. Assistant	Jen
30.	M. Vanithamani	Admin	
31.	C. RAGUPATHY	CSE	C.R.
32.			
33.			
34.			
35.			

M.M.

CO-ORDINATOR

HOD

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Valley Campus, Pollachi Highway, Coimbatore 641 032.
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Report for Webinar Organized

Name of the Faculty	: Mr. S. Dillwyn & Ms. T. Nivetha		
Department	: Food Technology	Designation	: Assistant Professor
Name of the Event	: **How to plan for Start-up, Legal and Ethical Steps**		
Level	: Department Level		
Venue / Mode	: Online	Google meet Link: https://meet.google.com/bbr-appn-yhg	
No. of Days	: 1	Dates : 30.08.2023	
Funded by	: Nil		
No. of Participants	: 78	Registration charges (if any) : Nil	

Resource Person Details (Name & Designation) : **Ms. Kanishka G**, Co-founder, Creators Connect, E- Platform for soloprenuer, Chennai.

Outcome:

The webinar have helped students become more aware of the startup ecosystem, the process of starting a business; and the legal and ethical challenges and opportunities involved. This motivated them to pursue their own startup ideas. The discussions during the webinar had sparked new startup ideas among the attendees, encouraging them to think creatively and critically about potential business ventures.

Remarks and Feedback on the Event:

The event covered a wide range of topics relevant to startups, from ideation to scaling, providing a comprehensive overview of the entrepreneurial journey.
The speaker has well-chosen and brought a wealth of experience to the event. The webinar was both inspirational and informative.

Plan of Implementing in HiCET (if any):
Entrepreneurship development for students by reaching out to the event speaker and collaboration on specific student projects.

1) 2)

Signature of the Faculty | HoD | Principal

PRINCIPAL
Hindusthan College Of Engineering & Technology
COIMBATORE - 641 032.

Category: IIC/MIC/Self: IIC
Copy of the Event Brochure / Invitation:

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Valley Campus, Pollachi Highway, Coimbatore 641 032.

Department of Food Technology

INSTITUTION'S INNOVATION COUNCIL

IIC ACTIVITY

How to plan for startup, legal and ethical steps

Chief Guest



Ms Kanishkha G

Co-founder
Creators Connect,
E-Platform for Solopreneur, Chennai.

30.08.2023 | 11:30 AM
Webinar

Patrons
Dr K Karunakaran, CEO
Hindusthan Educational Institutions.
Dr J Jaya, Principal

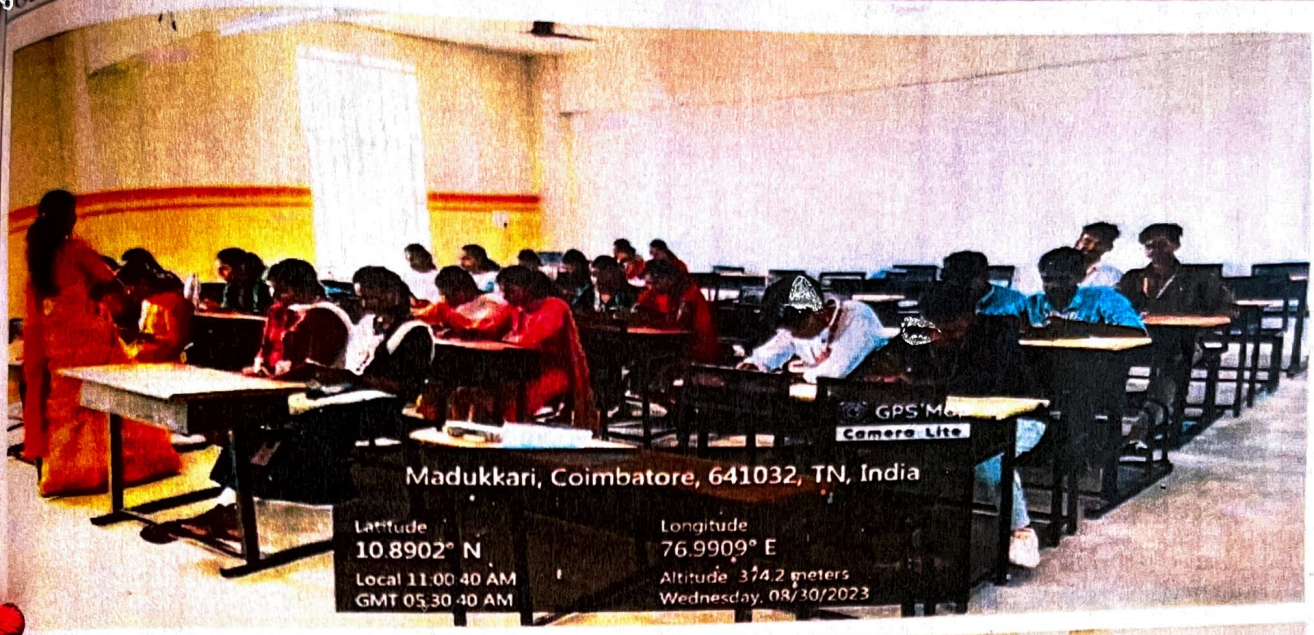
Convener
Dr Jeevarathinam G, Associate Professor & Head

Co-ordinators
Mr. Dillwyn S,
Ms. Nivetha T

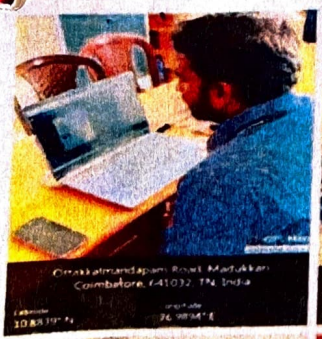
Video call link:
https://meet.google.com/bbr-appn-yhg

Cordially Invites you all

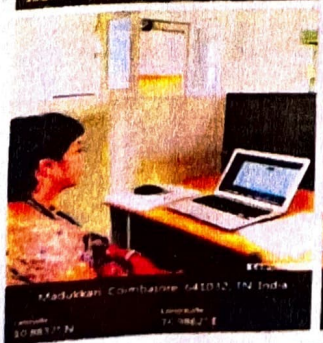
Geotagged Photos:

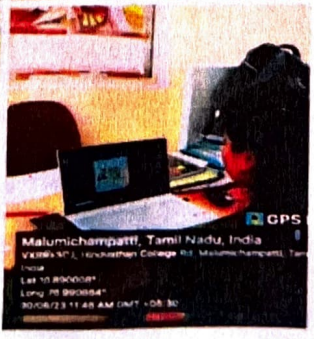














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DEPARTMENT OF FOOD TECHNOLOGY

Event name: Webinar on How to Plan for a start-up, Legal and Ethical Steps"

Resource Person: Ms. Kanishka G, Co-Founder, Creators connect, E-Platform for Soloprenuer, Chennai.

Venue: Online (meet.google.com/bbr-appn-yhg)

Date & Time: 30.08.2023 & 11.30 A.M onwards

Attendance

S.NO	Name	Designation/Year of Study	Department	Signature
1	Dr. G. Jeyarathinam	Associate Professor & Head	FT	
2	Dilluyn.J	Assistant Professor	FT	
3	T. Nivetha	Assistant Professor	FT	T. Nivetha
4	G. Nageswari.	Assistant Professor	FT	
5	J. Prabhkumar	Assistant Professor	FT	
6	Blessy.C	Assistant Professor	FT	C. Blessy
7	Charan Adithya	Assistant Professor	FT	
8	Dr. J. Deepa	Assistant Professor	FT	Deepa J
9	Dr. R. Saravanan.	Assistant Professor	FT	
10	Swathi.K	Assistant Professor	FT	
11	Thahaseen.A	Assistant Professor	Food Tech.	
12	Dr. R. Visvanathan	Professor	FT	Dr. R. Viv
13	Dr. Preetha. P.	Associate Professor	Food Tech	
14	Sella Dharshini C	Assistant Professor	Biomedical	
15	Thivya. S	Assistant Professor	FT	S. Thivya
16	Divya Bharathi	IV year	FT	
17	Hemaroobini. P	IV - Year	FT	
18	A. Tharani Sree	IV Year	FT	A. Tharani Sree

19.	K. Shree Swedha	IV. Year	FT	K.S.S.
20	NAVEEN. G	IV. year	F-T	
21.	ARAVINTH. S	IV - year	F-T	S.
22.	Naveen. S	IV - year	FT	
23	Abdul Kalam	IV - yr	FT	
24.	A Muhamed Al Haaris	IV - yr	FT	A. Muhamed Al Haaris
25.	T Thirumeelavasan	IV - yr	FT	
26.	Yugan. R	IV - Yr	FT	
27.	K. Vinithkumar	IV - yr	FT	
28.	Kaushik	IV Yr	FT	
29.	Akbir	IV Yr	FT	
30.	Sakthivel	IV Yr	FT	
31.	Swetha	IV Yr	FT	
32.	Deepak	IV Yr	FT	
33	S. Vinith	IV Yr	FT	
34	V. Vravaraj	"	FT	
35.	A. Deepesh	"	"	
36.	Tejaswini VM	"	"	
37.	Abishek K	"	"	
38.	P.R. Hari Vignesh	"	"	
39	Praveen. M	"	"	
40	Harish. S	"	"	
41.	Srikrishnamanivel	III yr	FT	
42.	Vasiharan. R	III yr	FT	
43	Kousalya. A	III yr	FT	
44	Rathnalohini A	III yr	FT	
45.	Karthika. V	III yr	FT	
46.	Swedha. S	"	"	
47.	M. Miracline Rebonia	"	"	
48	Sudhin Bharathi M	"	"	

49	Vasanthan P	III - year	FT	
50	Akkash S B	III - year	FT	
51	Kavin M	"	"	
52.	Dharaneesh N	"	"	
53	Thanush L	"	"	
54.	Dhinesh M	"	"	
55	Vishali M	"	"	
56	Kevlin Ferdicoff	"	"	
57	Hari Haran - R	II - year	FT	
58	Mahesh Krishnan P	II - Year	FT	
59	Raghav. H.A	II - Year	FT	
60	Tamahar H	II - Year	FT	
61	Dhanudharan M	II - Yr	F.T	
62	Richard. A	II year	F.T	
63	Nitharsana. V	II Year	F.T	
64	Thabibamaass. R	II year	F.T	
65	Jemima Angel. J	II Year	FT	
66	Monika. B	II - Year	FT	
67	Bhuvana. K	II - Year	FT	
68	Umamaheshwari	II - year	FT	
69.	Janani. S	II - Year	FT	
70	Bhuvana Shree. P	II - Year	FT	
71	Uthra. S	II - Year	FT	
72.	Sruthika. A	II - year	F.T.	
73.	Gp. Dharshini	II - year	FT	
74.	Yogapriya. M	II - Years	FT	
75.	T. Birundha	II - Year	F.T.	
76.	S. Keerthana	II - Year	FT	
77.	Saniya S	II - year	FT	
78	Anjana T. M	II year	F.T	

T. Nivetha
Co-ordinators

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Report for Seminar Organized

Name of the Faculty : Dr Premkumar J & Ms Swathi K			
Department	: Food Technology	Designation	: Associate Professor / Assistant Professor
Name of the Event	: **Entrepreneurship In Coconut Processing & Value Addition**		
Level	: Department Level		
Venue / Mode	: Kurinji Hall / offline		
No. of Days	: 1	Dates : 17/11/2023	
Funded by	: Nil		
No. of Participants	: 84	Registration charges (if any) : Nil	

Resource Person Details (Name & Designation) **: Dr. M. R. MANIKANTAN,** Principal Scientist, Physiology Biochemistry and Post Harvest Technology Division, ICAR-Central Plantation Crops Research Institute, Kasaragod-671 124, India.

Outcome:

Participants gained comprehensive knowledge about entrepreneurship opportunities in coconut processing and value addition. They learned about innovative techniques and business models relevant to the coconut industry. The seminar improved their understanding of market trends and consumer demands in this sector. Attendees also developed skills in identifying and capitalizing on value-added products. Overall, the session encouraged entrepreneurial thinking and provided actionable insights for starting or expanding businesses in coconut processing.Remarks and

Remarks and Feedback on the Event:

The seminar was highly informative and provided valuable insights into the coconut processing industry. Attendees appreciated the practical examples and success stories shared by the speakers. The session motivated participants to explore entrepreneurial opportunities in coconut value addition

Plan of Implementing in HiCET (if any):

.Incorporate entrepreneurial concepts and techniques related to coconut processing and value addition into the college's entrepreneurship and food processing curriculum.

Signature of the Faculty

HoD

Principal

Copy of the Event Brochure / Invitation:

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DEPARTMENT OF FOOD TECHNOLOGY

CORDIALLY INVITES YOU ALL FOR

IIC SELF DRIVEN ACTIVITY

ENTREPRENEURSHIP IN COCONUT PROCESSING AND VALUE ADDITION



Dr. M. R. MANIKANTAN

Principal Scientist,
Physiology, Biochemistry and Post Harvest Technology Division,
ICAR –Central Plantation Crops Research Institute,
Kasaragod-671 124, India.

SEMINAR

17 NOV 2023 | **KURINJI HALL, HICET** | **@10:00 AM**

PATRON (S)

Dr. K. KARUNAKARAN
CEO / HICET

Dr. J. JAYA
Principal / HICET

CONVENOR

Dr. G. JEEVARATHINAM
Associate Professor & HOD

CO-ORDINATOR

DR.PREMKUMAR J ASP/FT
MS.SWATHI K AP/FT

Hindusthan
College of Engineering and Technology,
Valley Campus, Pollachi Highway, Coimbatore 641 032.
www.hicet.ac.in

Report for Technical Webinar on "Post- harvest Processing and Value Addition in Tuber Crops"

Name of the Faculty : Dr.Jeevarathinam.G and Dr.Navarasam.R	
Department : Food Technology in association with The Institution of Engineers (India), Coimbatore Local Centre	**Designation** : Dr.Jeevarathinam.G (HOF/FT) and Dr.Navarasam.R (AP/FT)
Name of the Event : "Post- harvest Processing and Value Addition in Tuber Crops"	
Level : College Level	
Venue / Mode : Ganga Hall and Virtual	
No. of Days : One day	**Dates :** 15.11.2023
Funded by : NIL	
No. of Participants : 160	**Registration charges (if any)** : NIL

Name and Designation of Resource Person :
Dr T KRISHNAKUMAR
Scientist
Division of Crop Utilization,
ICAR – Central Tuber Crops Research Institute (CTCRI)
Thiruvananthapuram

Objectives ;

- The webinar focused on the significance of effective utilization of tuber crops and their by-products.
- The webinar was also emphasis on post-harvest processing and valorisation of tuber crops for the production of different kind of products with nutritional perspectives.

Outcome and remarks :

- The development of by-products from tuber crops, their nutritional properties, Mechanization and Future scope everything was clearly presented by the key note speaker.
- The guest speaker explained about the importance of valorisation of tuber crops. In their organization (CTCRI), they have developed various products from tubers crops (Tapioca, potatoes, cassava, sweet potatoes and yams).
- The whole session was more useful and highly informative.
- The questionaries were asked by students and answered with clarity by the guest speaker in an distinguished manner.
- The participants were actively participated and have given excellent feedback about the lecture. Nearly more than 160 participants attended the session

Plan of Implementing in HiCET (if any) : Yes

Signature of the Faculty **HoD** **Principal**

Invitation of the event:

The Institution of Engineers (India)

Coimbatore Local Centre

in association with

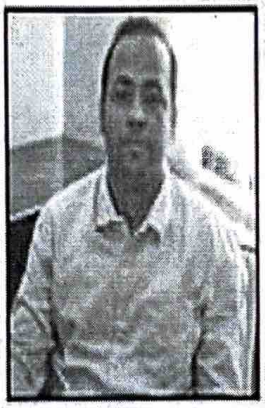
Department of Food Technology

Hindusthan College of Engineering and Technology, Coimbatore

organizes

A Technical Webinar on

"Post-harvest Processing and Value Addition in Tuber Crops"



by

Dr T KRISHNAKUMAR

Scientist

Division of Crop Utilization

ICAR- Central Tuber Crops Research Institute (CTCRI)

Thiruvananthapuram

on 15th November 2023 (Wednesday), 11.00 AM

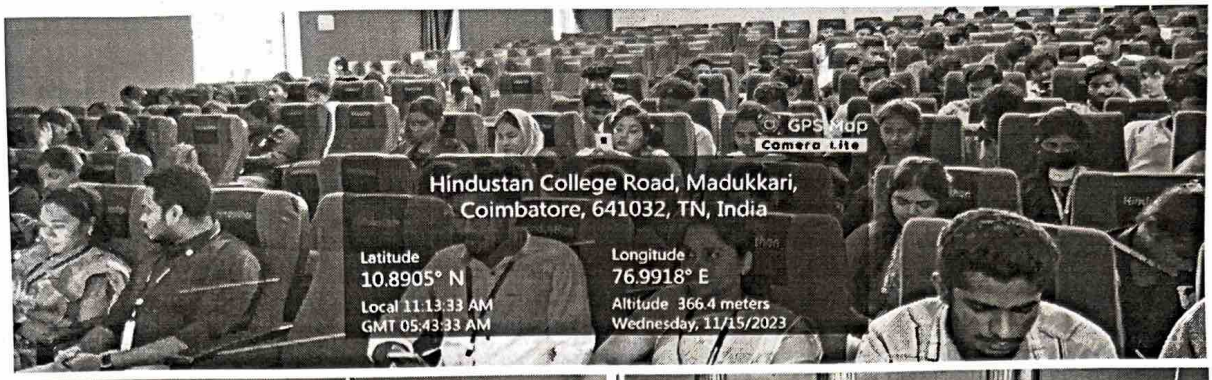
https://meet.google.com/jsf-pmgi-ghv

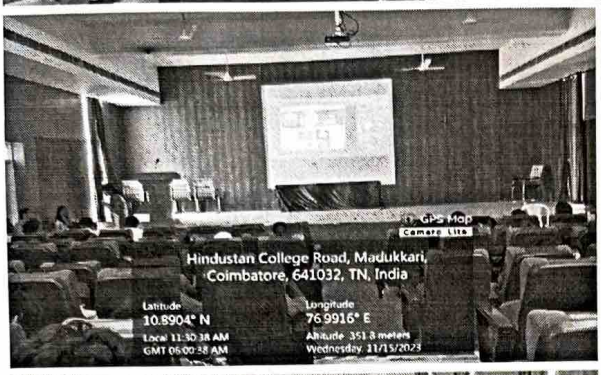
All are Cordially Invited !!!

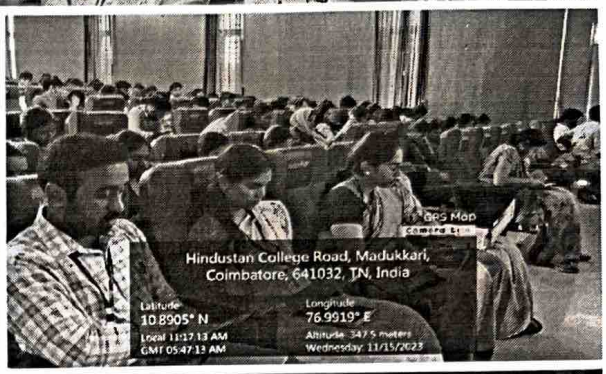
Dr J Krishnamoorthi FIE
Chairman

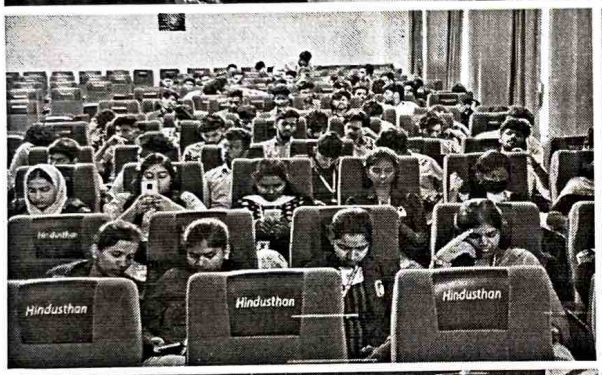
Dr G Madhan Mohan MIE
Honorary Secretary

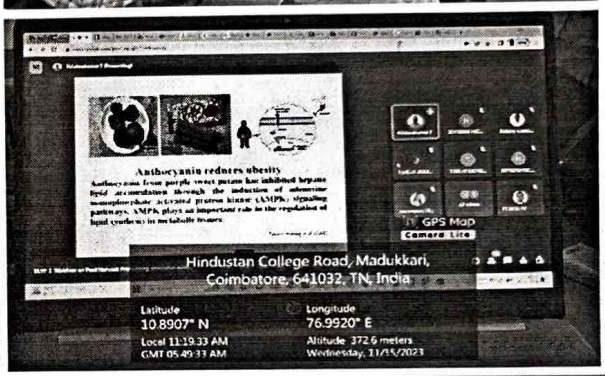
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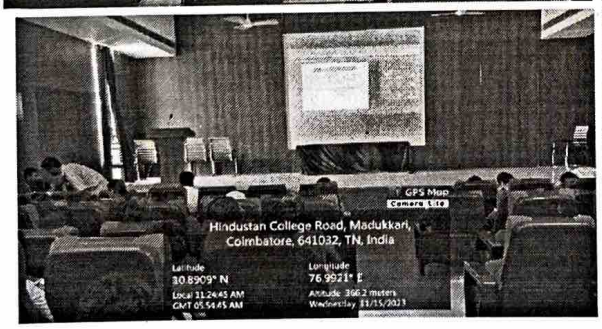














HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST

HICET

Hindusthan
College of Engineering and Technology,
Valley Campus, Pollachi Highway, Coimbatore 641 032.
www.hicet.ac.in

Report for Guest Lecture on "Relevance of entrepreneurship in an AI Era for Food Technology"

Name of the Faculty: Dr.Navarasam.R and Dr.PremKumar.J	
Department : Food Technology in association with EDC and IIC	**Designation** : Associate Professor
Name of the Event : "Relevance of entrepreneurship in an AI Era for Food Technology"	
Level : College Level	
Venue / Mode : Ganga Hall and Offline	
No. of Days : One day	**Dates :** 28.03.2024
Funded by : Management	
No. of Participants : 70	**Registration charges (if any) :** NIL

Name and Designation of Resource Person :

Mr.Karthick.R
A Social Speaker (TED talks)
Institutional Head
Business Development and Management Role
Coimbatore.

Objectives :

- To develop the entrepreneurship skill among the students for setting up own products towards self-employment.
- To encourage the student participants through TED talks to attain their Goal

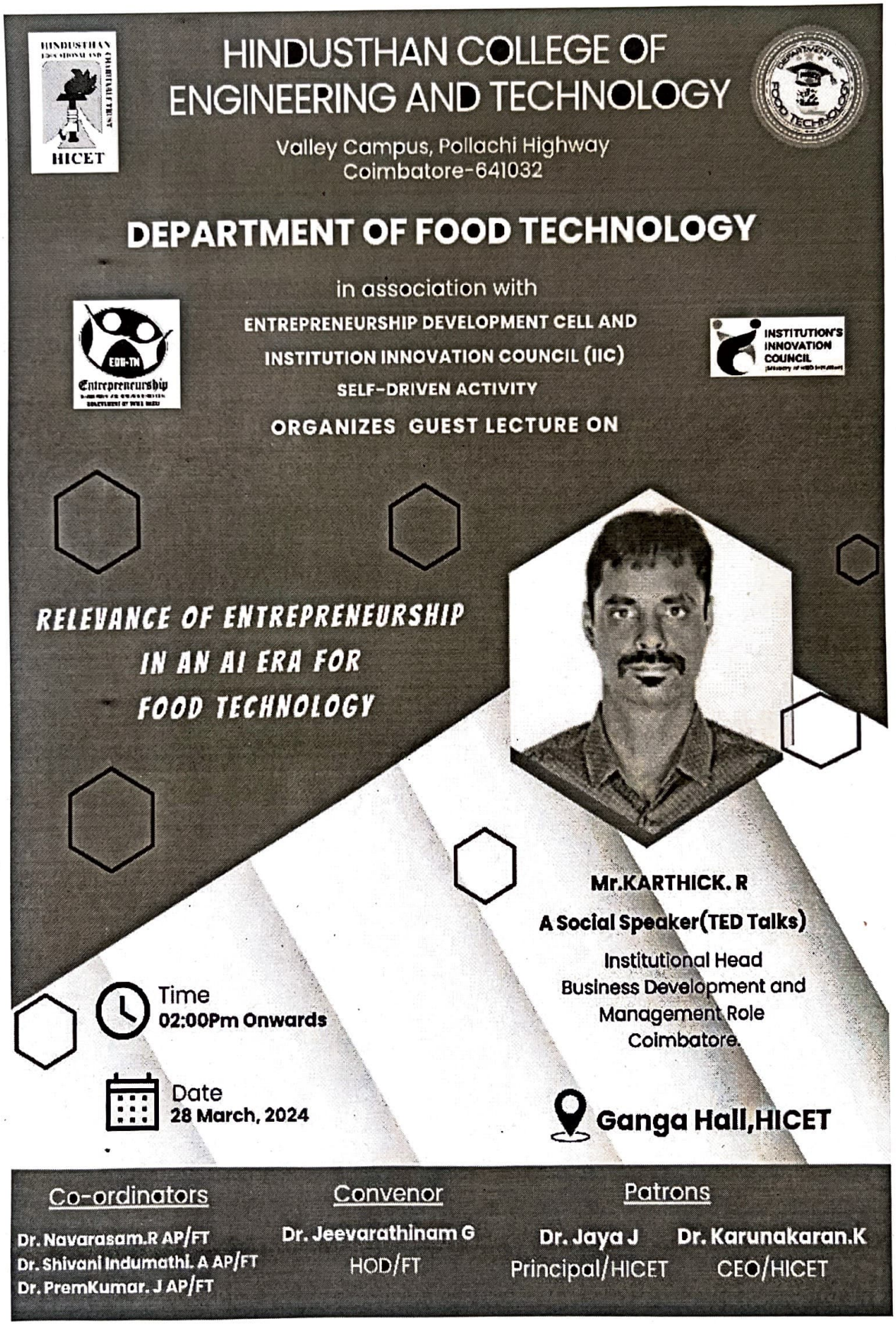
Outcome and remarks :

- The participants have got knowledge on the business start-Up and Business opportunities with challenges
- More than seventy participants were benefited from this lecture and the whole session was interesting as the participants were active and got clarified.
- Entrepreneurship training facilitates the candidate to identify business opportunities to develop business plans and to strengthen the entrepreneurial activities

Plan of Implementing in HiCET (if any) : Yes

Signature of the Faculty **HoD** **Principal**

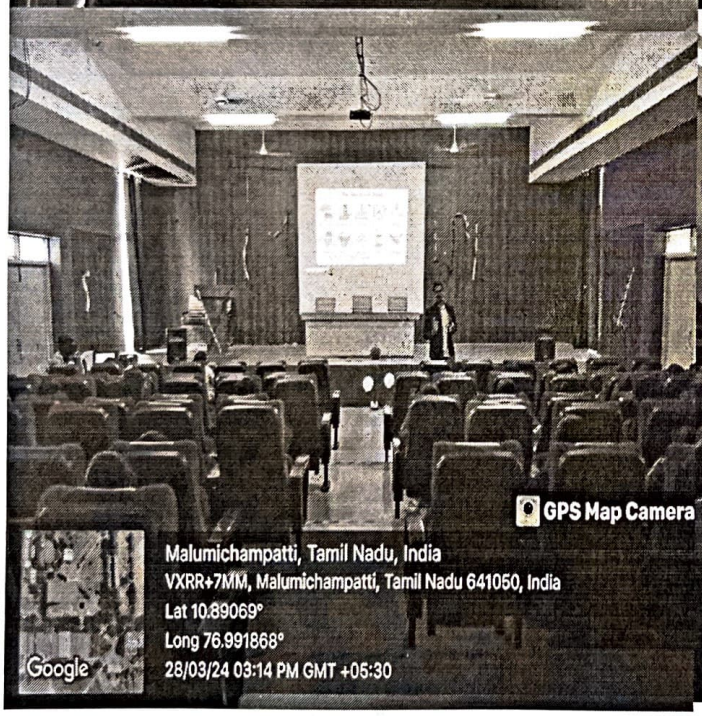
Invitation of the event:



Geo tagged photos:









HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST
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College of Engineering and Technology,
Valley Campus, Pollachi Highway, Coimbatore 641 032.
www.hicet.ac.in

Report for "Electrical safety and conservation" workshop organized

Name of the Faculty :Dr.N.P. Ananthamoorthy, Mr. K. Saravanakumar, Ms. B. Nandhini	
Department : EEE	Designation : Professors
Name of the Event :Electrical safety and conservation.	
Level : College Level	
Venue / Mode : EEE Smart Class (EIE Block) / Offline Mode ,	
No. of Days :One day	Dates : 30/05/2023
Funded by : Nil	
No. of Participants : 30	Registration charges (if any) : Nil
Name and Designation of Resource Person(s) : Dr.K.Sekar Prof . / EEE, Hindusthan College of Engineering and Technology, Coimbatore.	
Outcome: Technical and Non-Technical Staffs can able to understand the Conservation of Energy in their day to day life.	
Remarks and Feedback on the Event : Excellent	
Plan of Implementing in HiCET (if any) : Program organised in HICET	
Signature of the Faculty HoD Principal	

HINDUSTHAN COLLEGE OF ENGG & TECH. CBE - 32.

PRINCIPAL
Hindusthan College Of Engineering & Technology
COIMBATORE - 641 032.

Copy of the Event Brochure / Invitation:

HINDUSTHAN

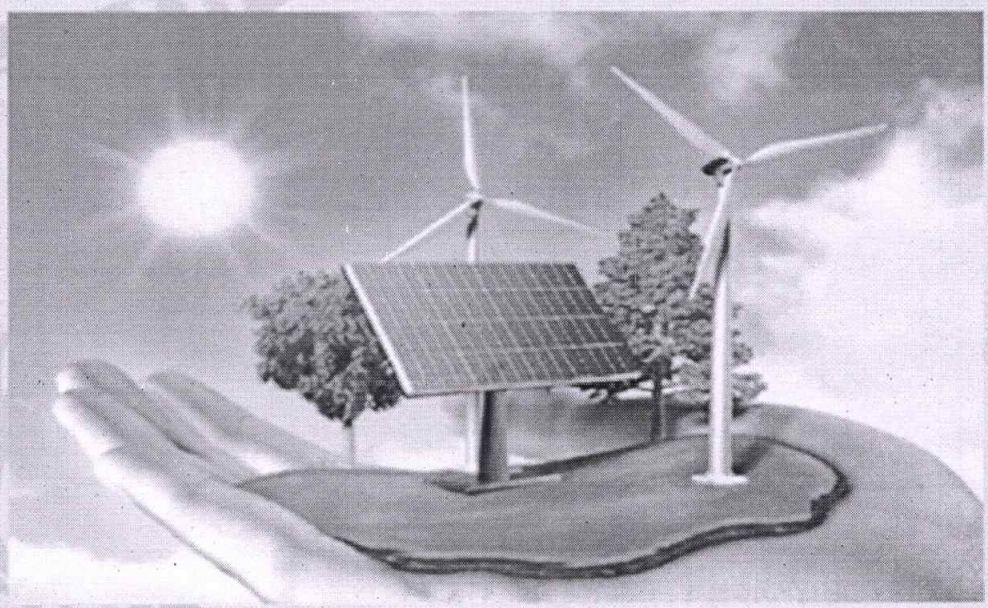
COLLEGE OF ENGINEERING AND TECHNOLOGY

COIMBATORE-32

DEPARTMENT OF
ELECTRICAL AND ELECTRONICS ENGINEERINNG

Organizing workshop on

" Electrical Safety and Conservation"
for
Technical and Non Teaching Staffs



COORDINATORS
Mr. K. Saravanakumar AP / EEE,
Ms. B. Nandhini, AP / EEE

CONVENOR
Dr. N.RAnanthamoorthy,
HoD / EEE

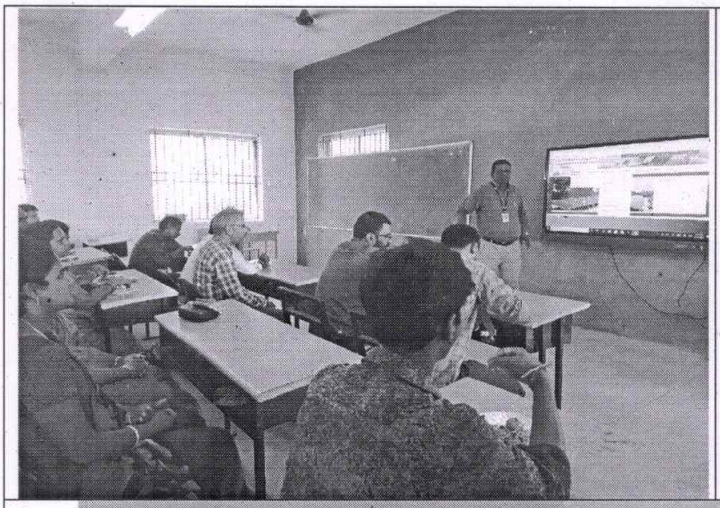
PRINCIPAL
Dr. J Jaya

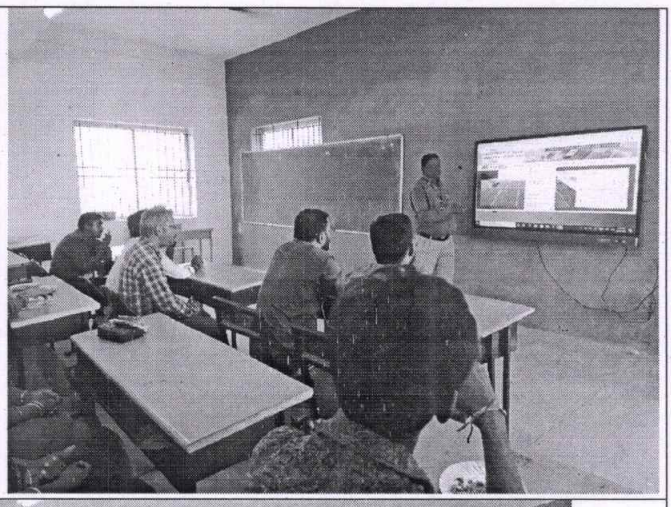
CEO
Dr. K Karunakaran

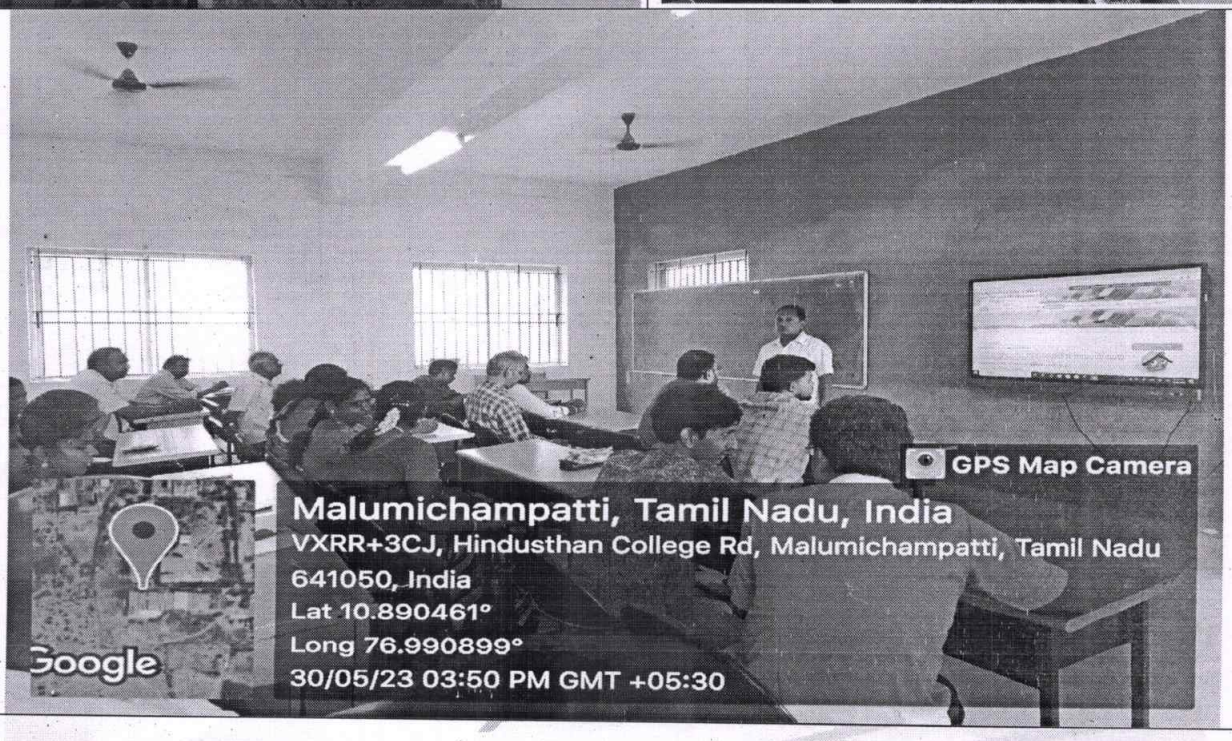
VENUE : EEE Smart Class, HiCET DATE : 30.05.2023 TIME : 10:00 AM

HINDUSTHAN COLLEGE OF ENGG & TECH · CBE - 32 ·

Geo Tagged Photographs of Event – 2 Nos:









Copy of the Participation/Issue Certificate:

HINDUSTHAN
College of Engineering and Technology
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Valley Campus, Pollachi Highway, Coimbatore - 641032

Department of
Electrical and Electronics Engineering

CERTIFICATE OF PARTICIPATION

This is certified that Deepa.S, Lab Assistant, Department of Chemical Engineering of Hindusthan college of Engineering and Technology have participated in the workshop on "Electrical Safety and Conservation" on 30.05.2023.

Co-ordinator	CONVENOR	PRINCIPAL	CEO
Mr.K.SARAVANAKUMAR	Dr.N.P.ANANTHAMOORTHY	Dr.J.JAYA	Dr.K.KARUNAKARAN
AP / EEE	HOD / EEE	HICET	HINDUSTHAN INSTITUTIONS

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www.tuv.com ID 9105039275

BRANCH : Electrical and Electronics Engineering

Date: 30.05.2023

Event Name: Electrical Safety and Conservation.

S.No.	Dept.	Name of the Staff	Designation	Signature
1.	MECH	A.MANIKANDAN	LAB TECHNICIAN	
2.	MECH	S.J.JESVADJAN	"	S.J.
3.	MECH	S.RAJENDRAN	"	
4.	MECH	R.MOHANASUNDARAM	"	
5.	MECH	P. SIVAKUMAR.	"	P. Sivakumar.
6.	MECH	P. ARUNKUMAR	"	P. AK
7.	MCT	K. Aravindhan.	Lab technician.	K. Aravindhan
8.	MCT	C.M. Parthasarathy.	Lab technician	C.M.
9.	CSE	S.VARADARAJAN	"	S. Vara
10.	BIO	D. Omeshkumar	"	
11	MCA	Manikandan R	"	
12.	Agri	S. Mohamed Abdullah	"	S. Md Abdullah
13	Civil	P Irudayasamy	"	
14	AERO	G.A. Murugan	"	
15	Chemical	I. Abu ansaari	"	
16	A&M	S. Senthilkumar	Hardware Engg	
17	F.T	P.SIVA VIGNESH	L.T	P.S
18	CSE	P. Mangayarkarasi	Office Assist	P.
19.	E&I	K. Gowthamy	Lab Technician	K. Gowthamy
20.	AGRI	M. Nandhini Devi	Lab Assist	M.
21	BME	S. Sivaranjani	Lab Technician	S.
22	FT	M. Nandhini	Lab ASSIST	M.
23	Civil	M. Geethanjali	Lab ASSIST	M.
24.	Chemi	S. Deepa	Lab ASSIST	S. Deepa
25.	EEE	R. Sivasankari	Lab Tech.	R. Sivasankari
26.	ECE	S Ambiga	Lab Tech	S.
27	IT	N. Thillainayaki	Office Assistant	N. Thi
28.	MCT	S. ARUNKumar	Lab Tech	S. A
29	AUTO	M. THAMARAISELVAN	LAB Tech	
30	Auto	Bharanesh	Lab. Tech	

HINDUSTHAN COLLEGE OF ENGG & TECH · CBE · TN

23-24

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REQUEST FORM TO ORGANIZE AN EVENT

Name of the Faculty	**Dr. Rajeshkanna R, Prof. G Muthuram, Prof. M P Viswanathan**		
Designation	ASSOCIATE PROFESSOR		
Department	**ELECTRICAL AND ELECTRONICS ENGINEERING**		
Type of Event	5 Day Faculty Development Programme (Hybrid Mode) FDP		
In Association With	MANAGEMENT		
Category	International / **National**		
Title of the Event	**"Electric Vehicles: Innovation Techniques and Research Opportunities in Green Revolution of Sustainable Development"**		
No. of Participants Expected	**40**		
Venue	**Department of EEE , Hindusthan College of Engineering and Technology, Coimbatore -32**		
No. of Days	**01**	**Date(s)**	**December 05- 09, 2023**

Name and Designation of the Resource Person(s):

Dr. Nilanjan Dey Associate Professor/CSE	Dr.R.Mohan Das, Associate Professor/EEE
Dr Ashok Kumar L, Professor/EEE	Mr Prasanna Venkatesan , Mindroid Academy
Dr. A. Pandian, Professor and Research	Dr. N P Ananthamoorthy HoD/EEE
Mrs. Nandhini B, Associate Professor/EEE	Mr. M P Viswanathan Associate Professor/EEE
Mr. Saravanakumar K, Assistant Professor /EEE	Mr. Khaja Najumudeen A, Assist Prof /EEE

Details of the Proposed Budget:
Rs.5000/- X 5 Days = Rs.25000/-
(Rupees Twenty Five Thousand Only)

Faculty In-charge

HoD

Approved by

Principal

PRINCIPAL
Hindusthan College Of Engineering & Technology
COIMBATORE - 641 032.

HINDUSTHAN COLLEGE OF ENGG & TECH - CBE - 32

Five Day

Faculty Development Programme

(Hybrid Mode)

"Electric Vehicles: Innovation Techniques and Research Opportunities in Green Revolution of Sustainable Development"

December 05- 09, 2023

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST

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Department of

Electrical and Electronics Engineering

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Dr. Priya Sathish Prabhu K

Executive Trustee & Secretary,

Hindusthan Educational and Charitable Trust.

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Dr. Karunakaran K, CEO, Hindusthan Institutions

Dr. Jaya J, Principal, HiCET

CONVENER

Dr. Ananthamoorthy N P

Professor & Head, Department of EEE, HiCET

FDP - COORDINATORS

Dr. Rajeshkanna R, Associate Professor/ EEE.

Prof. G Muthuram , Associate Professor/ EEE.

Prof. M P Viswanathan, Associate Professor/ EEE.

ORGANISING COMMITTEE

Dr. Sekar K, Professor/ EEE.

Dr. Mathan K, Associate Professor/ EEE.

Mrs. Nandhini B, Associate Professor/ EEE.

Mr. Joshua Daniel S, Assistant Professor/ EEE.

Mr. Saravanakumar K, Assistant Professor/ EEE.

Mr. Maheshkumar N, Assistant Professor/ EEE.

Mr. A Khaja Najumudeen, Assistant Professor/ EEE.

Five Day

Faculty Development Programme

(Hybrid Mode)

"Electric Vehicles: Innovation Techniques and Research Opportunities in Green Revolution of Sustainable Development"

December 05- 09, 2023

Name: .....

Designation: .....

Department: .....

Educational Qualification: .....

Institution: .....

Address for Communication: .....

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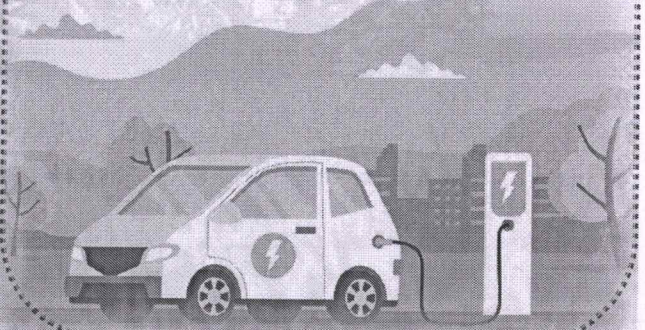
Mobile No.: .....

E-mail: .....

Place:

Date:

Signature of the Participant



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Organized by

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

5 Day Faculty Development Programme (Hybrid Mode)

"Electric Vehicles: Innovation Techniques and Research Opportunities in Green Revolution of Sustainable Development"

December 05- 09, 2023 - 10:00 AM – 03:30 PM

PROGRAMME SCHEDULE

Day/Date		10:00 AM to 12.00 Noon	02.00 PM to 3.30 PM	
Day-1 02.01.2024 Tuesday		Title: Evolving Dynamics: The Role of Electric Vehicles Dr. Nilanjan Dey Associate Professor/CSE Techno International New Town, Kolkata.	Title : Policy Perspectives: Shaping the Future of Green Transportation Dr. N P ANANTHAMOORTHY HoD/EEE Hindusthan College of Engineering and Technology, Coimbatore-32, Tamil Nadu.	
Day-2 03.01.2024 Wednesday		Title: Solar Bifacial Photovoltaic System for Sustainable Environment **Dr.R.Mohan Das,** Associate Professor/EEE New Horizon College of Engineering , Bengaluru, Karnataka- 560 103	Title : Powering the Future: Electric Vehicle Technologies Explained **Mrs. Nandhini B,** Associate Professor/EEE Hindusthan College of Engineering and Technology, Coimbatore-32, Tamil Nadu.	
Day-3 04.01.2024 Thursday		Title: Research Frontiers: Opportunities in Electric Vehicle Studies Dr Ashok Kumar L, Professor/EEE PSG College of Technology Coimbatore, Tamil Nadu- 641004	Title : Driving Change: Assessing the Environmental Impact of EVs Mr. M P Viswanathan Associate Professor/EEE Hindusthan College of Engineering and Technology, Coimbatore-32, Tamil Nadu.	
Day-4 05.01.2024 Friday		Title: EV: Industrial Standards Mr Jagannathan Schneider Electric India, Chennai Coimbatore, Tamil Nadu - 641 041	Title: Greening the Road: Introduction to Sustainable Development. Mr. Saravanakumar K, Assistant Professor /EEE, Hindusthan College of Engineering and Technology, Coimbatore-32, Tamil Nadu.	
Day-5 06.01.2024 Saturday		Title: Regulatory Framework for EV Adoption Dr. A. Pandian, Professor and Research Group Head, K L UNIVERSITY (Deemed to be University), Guntur – Andhra Pradesh 522 302.	Title : Innovative Solutions: Advancements in Electric Vehicle Design **Mr. Khaja Najumudeen A,** Assistant Professor /EEE Hindusthan College of Engineering and Technology, Coimbatore-32, Tamil Nadu.	

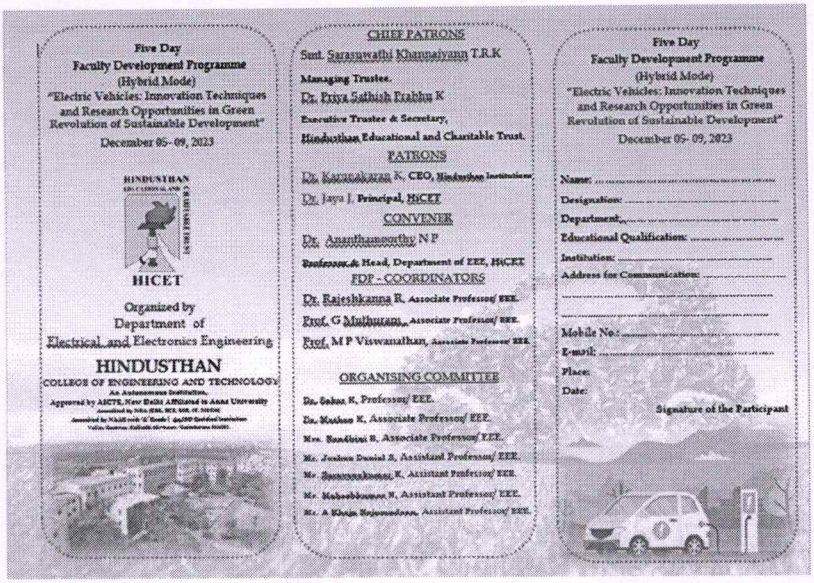
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Valley Campus, Pollachi Highway, Coimbatore 641 032.
HICET **www.hicet.ac.in**

Report for 5 Day Faculty Development Programme (Hybrid mode) in "Electric Vehicles: Innovation Techniques and Research Opportunities in Green Revolution of Sustainable Development" organized

Name of the Faculty Members : **Dr. Rajeshkanna R, Prof. G Muthuram, Prof. M P Viswanathan.**	
Department : **EEE**	Designation : **ASSOCIATE PROFESSOR**
Name of the Event : **Electric Vehicles: Innovation Techniques and Research Opportunities in Green Revolution of Sustainable Development**	
Level : **National**	
Venue / Mode : **Department of EEE ,Hindusthan College of Engineering and Technology, Coimbatore -32**	
No. of Days : **05**	Dates : **December 05- 09, 2023**
Funded by : **Management**	
No. of Participants : **40**	Registration charges (if any) : **Nil**
Name and Designation of Resource Person(s) :	
Dr. Nilanjan Dey Associate Professor/CSE	Dr.R.Mohan Das, Associate Professor/EEE
Dr Ashok Kumar L, Professor/EEE	Mr Prasanna Venkatesan , Mindroid Academy
Dr. A. Pandian, Professor and Research	Dr. N P Ananthamoorthy HoD/EEE
Mrs. Nandhini B, Associate Professor/EEE	Mr. M P Viswanathan Associate Professor/EEE
Mr. Saravanakumar K, Assistant Professor /EEE	Mr. Khaja Najumudeen A, Assist Prof /EEE
Outcome : Resource persons from the energy sector shared their views about the emission of zero tailpipe emissions, making them environmentally friendly. The EVs are cheaper to operate than gasoline cars because electricity is cheaper than gasoline. Third, they require less maintenance because they have fewer moving parts than ICE vehicles.	
Remarks and Feedback on the Event : **Excellent**	
Plan of Implementing in HiCET (if any) : -----	
Signature of the Faculty	HoD / Principal

PRINCIPAL
Hindusthan College Of Engineering & Technology
COIMBATORE - 641 032.

Copy of the Event Brochure / Invitation:



Five Day
Faculty Development Programme
(Hybrid Mode)
"Electric Vehicles: Innovation Techniques and Research Opportunities in Green Revolution of Sustainable Development"
December 05- 09, 2023

HICET

Organized by
Department of
Electrical and Electronics Engineering

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Managing Trustee.
Dr. Priya Sathish Prabhu K
Executive Trustee & Secretary,
Hindusthan Educational and Charitable Trust.

PATRONS
Dr. Kaliyaperumal K, CEO, Hindusthan Institutions
Dr. Jaya J, Principal, HiCET

CONVENER
Dr. Ananthamoorthy N P
Professor & Head, Department of EEE, HiCET

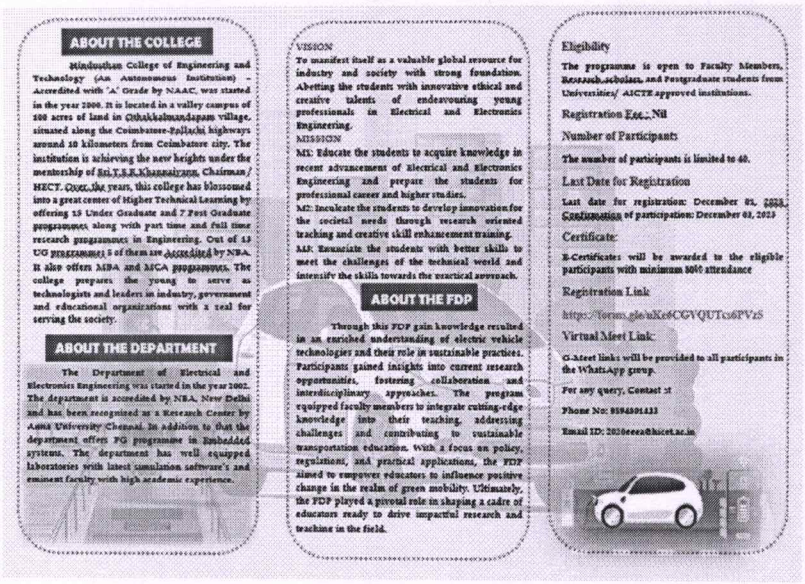
FDP - COORDINATORS
Dr. Rajeshkanna R, Associate Professor/ EEE.
Prof. G Muthuram, Associate Professor/ EEE.
Prof. M P Viswanathan, Associate Professor/ EEE.

ORGANISING COMMITTEE
Dr. Sekar K, Professor/ EEE.
Dr. Mathan K, Associate Professor/ EEE.
Mrs. Sandhini S, Associate Professor/ EEE.
Mr. Joshua Daniel S, Assistant Professor/ EEE.
Mr. Saravanakumar K, Assistant Professor/ EEE.
Mr. Maheshkumar N, Assistant Professor/ EEE.
Mr. A Klein Rajamadurai, Assistant Professor/ EEE.

Five Day
Faculty Development Programme
(Hybrid Mode)
"Electric Vehicles: Innovation Techniques and Research Opportunities in Green Revolution of Sustainable Development"
December 05- 09, 2023

Name: .....
Designation: .....
Department: .....
Educational Qualification: .....
Institution: .....
Address for Communication: .....
.....
.....
Mobile No.: .....
E-mail: .....
Place:
Date:

Signature of the Participant



ABOUT THE COLLEGE

Hindusthan College of Engineering and Technology (An Autonomous Institution) - Accredited with 'A' Grade by NAAC, was started in the year 2000. It is located in a valley campus of 100 acres of land in Othakkalmandapam village, situated along the Coimbatore-Pollachi highways around 10 kilometers from Coimbatore city. The institution is achieving the new heights under the mentorship of Sri.T.S.K.Khannaiyann, Chairman / HECT. Over the years, this college has blossomed into a great center of Higher Technical Learning by offering 15 Under Graduate and 7 Post Graduate programmes along with part time and full time research programmes in Engineering. Out of 13 UG programmes 5 of them are Accredited by NBA. It also offers MBA and MCA programmes. The college prepares the young to serve as technologists and leaders in industry, government and educational organizations with a zeal for serving the society.

ABOUT THE DEPARTMENT

The Department of Electrical and Electronics Engineering was started in the year 2002. The department is accredited by NBA, New Delhi and has been recognized as a Research Center by Anna University Chennai. In addition to that the department offers PG programme in Embedded systems. The department has well equipped laboratories with latest simulation software's and eminent faculty with high academic experience.

VISION
To manifest itself as a valuable global resource for industry and society with strong foundation. Abetting the students with innovative ethical and creative talents of endeavouring young professionals in Electrical and Electronics Engineering.

MISSION
M1: Educate the students to acquire knowledge in recent advancement of Electrical and Electronics Engineering and prepare the students for professional career and higher studies.
M2: Inculcate the students to develop innovation for the societal needs through research oriented teaching and creative skill enhancement training.
M3: Remunerate the students with better skills to meet the challenges of the technical world and intensify the skills towards the practical approach.

ABOUT THE FDP

Through this FDP gain knowledge resulted in an enriched understanding of electric vehicle technologies and their role in sustainable practices. Participants gained insights into current research opportunities, fostering collaboration and interdisciplinary approaches. The program equipped faculty members to integrate cutting-edge knowledge into their teaching, addressing challenges and contributing to sustainable transportation education. With a focus on policy, regulations, and practical applications, the FDP aimed to empower educators to influence positive change in the realm of green mobility. Ultimately, the FDP played a pivotal role in shaping a cadre of educators ready to drive impactful research and teaching in the field.

Eligibility
The programme is open to Faculty Members, Research scholars, and Postgraduate students from Universities/ AICTE approved institutions.

Registration Fee: Nil

Number of Participants
The number of participants is limited to 60.

Last Date for Registration
Last date for registration: December 01, 2023.
Confirmation of participation: December 02, 2023

Certificate:
E-Certificates will be awarded to the eligible participants with minimum 80% attendance

Registration Link:
https://forms.gle/uKe6CGYQUTcs6PVz5

Virtual Meet Link:
G-Meet links will be provided to all participants in the WhatsApp group.

For any query, Contact :

Phone No: 8124691433

Email ID: 2020eeee@hicet.ac.in

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

5 Day Faculty Development Programme (Hybrid Mode)

"Electric Vehicles: Innovation Techniques and Research Opportunities in Green Revolution of Sustainable Development"

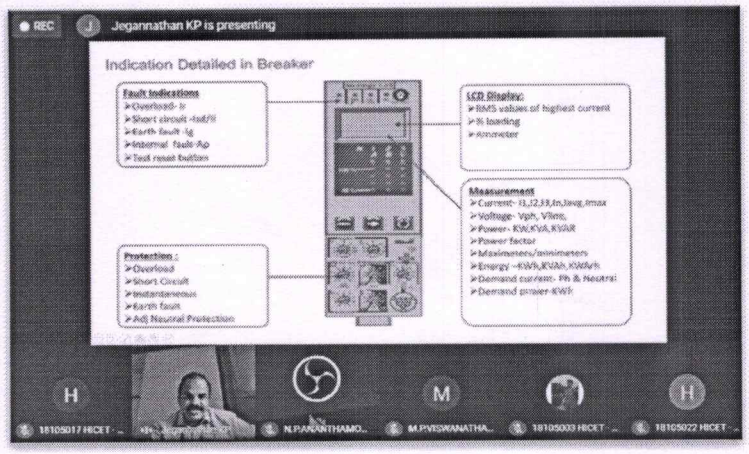
December 05- 09, 2023 - 10:00 AM - 03:30 PM

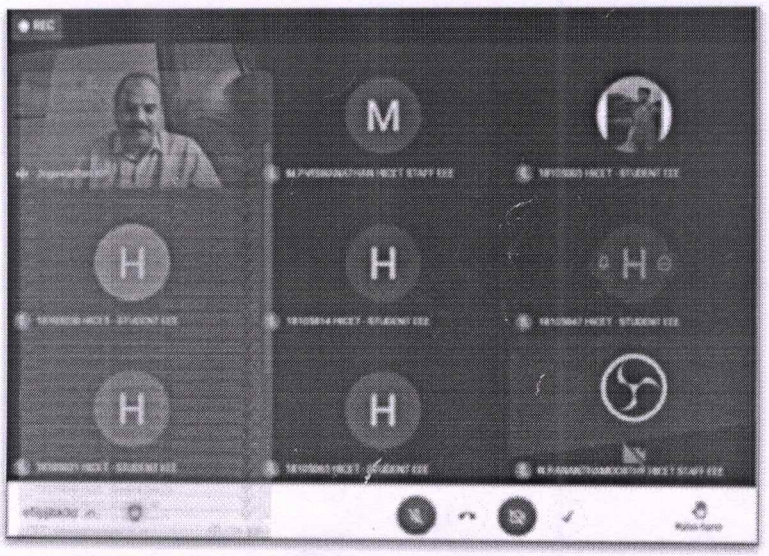
PROGRAMME SCHEDULE

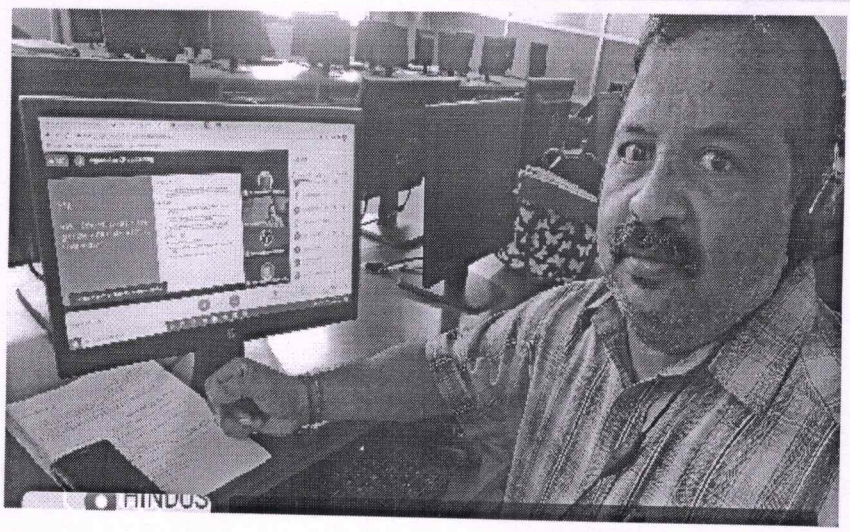
Day/Date		10:00 AM to 12.00 Noon	02.00 PM to 3.30 PM	
Day-1 02.01.2024 Tuesday		Title: Evolving Dynamics: The Role of Electric Vehicles Dr. Nilanjan Ray, Associate Professor/CSE Techno International New Town, Kolkata.	Title : Policy Perspectives: Shaping the Future of Green Transportation Dr. N P ANANTHAMOORTHY, HoD/EEE Hindusthan College of Engineering and Technology, Coimbatore-32, Tamil Nadu.	
Day-2 03.01.2024 Wednesday		Title: Solar Bifacial Photovoltaic System for Sustainable Environment Dr.R.Mohan Das, Associate Professor/EEE New Horizon College of Engineering, Bangalore, Karnataka- 560 103	Title : Powering the Future: Electric Vehicle Technologies Explained Mrs. Sandhini S, Associate Professor/EEE Hindusthan College of Engineering and Technology, Coimbatore-32, Tamil Nadu.	
Day-3 04.01.2024 Thursday		Title: Research Frontiers: Opportunities in Electric Vehicle Studies Dr.Ashok Kumar L, Professor/EEE PSG College of Technology Coimbatore, Tamil Nadu- 641004	Title : Driving Change: Assessing the Environmental Impact of EVs Mr. M P Viswanathan Associate Professor/EEE Hindusthan College of Engineering and Technology, Coimbatore-32, Tamil Nadu.	
Day-4 05.01.2024 Friday		Title: EV: Industrial Standards Mr.Jayaprakash, Schneider Electric India, Chennai Coimbatore, Tamil Nadu - 641 041	Title: Greening the Road: Introduction to Sustainable Development. Mr. Saravanakumar K, Assistant Professor/EEE, Hindusthan College of Engineering and Technology, Coimbatore-32, Tamil Nadu.	
Day-5 06.01.2024 Saturday		Title: Regulatory Framework for EV Adoption Dr. A. Pandian, Professor and Research Group Head, K L UNIVERSITY (Deemed to be University), Guntur - Andhra Pradesh 522 302.	Title : Innovative Solutions: Advancements in Electric Vehicle Design Mr. Klein Rajamadurai A, Assistant Professor /EEE Hindusthan College of Engineering and Technology, Coimbatore-32, Tamil Nadu.	

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Valley Campus, Pollachi Highway, Coimbatore 641032.

Certificate of Participation

This is to certify that

~~Dr.~~/Prof./~~Mr./Ms.~~ **Mr.P.Anbarasu AP/EEE**

of **Sri Eshwar College of Engineering, Coimbatore**

Participated in the 5 Days Faculty Development Programme (Hybrid mode) in "Electric Vehicles: Innovation Techniques and Research Opportunities in Green Revolution of Sustainable Development" Organized by Department of Electrical and Electronics Engineering at HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY on December 05- 09, 2023.

Convener
Dr. Ananthamoorthy N P

Principal
Dr. Jaya J

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Certificate of Participation

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~~Dr.~~/Prof./~~Mr./Ms.~~ **R. MOHAN KUMAR AP/EEE**

of **Sri Ramakrishna Engineering College (SREC), Coimbatore**

Participated in the 5 Days Faculty Development Programme (Hybrid mode) in "Electric Vehicles: Innovation Techniques and Research Opportunities in Green Revolution of Sustainable Development" Organized by Department of Electrical and Electronics Engineering at HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY on December 05- 09, 2023.

Convener
Dr. Ananthamoorthy N P

Principal
Dr. Jaya J

HINDUSTHAN COLLEGE OF ENGG & TECH · CBE · 32 ·

Hindusthan
College of Engineering and Technology,
Valley Campus, Coimbatore 641 032.

HICET www.hicet.ac.in

Report for **5 Day National Level Faculty Development Programme** on organized / participated

Name of the Faculty : **Dr Ananthamoorthy N P, Convenor, Head/ EEE** **Prof. Muthuram G , Associate Professor/EEE**	
Department : **EEE**	Designation :
Name of the Event : **5 Day National Level Faculty Development Programme** **"Exploring Teaching Strategies & Research Scope in Renewable Energy Sectors"**	
Level : **National /**	
Mapping with UN SDGs (Tick the relevant) : **Affordable and clean energy (SDG 7)**	
Venue / Mode : **HYBRID**	
No. of Days : **05 Day**	Dates : **02nd January 2024 to 06th January 2024**
Funded by : **Management**	
No. of Participants : **External : 133** **Internal : 23**	Registration charges (if any) : **NIL**
Name and Designation of Resource Person(s) : **Brochure Attached**	
Outcome : Renewable Energy provides a viable alternative to non-renewable resources, such as fossil fuels while many are also environmentally friendly and produce little of no CO_2. It is healthier. Switching to clean sources of energy, such as wind and solar, thus helps address not only climate change but also air pollution and health. Renewable energy in the future is predicted that by 2024, solar capacity in the world will grow by 600 gigawatts (GW)	
Remarks and Feedback on the Event : Informative Sessions , Excellent Organisation & Interested to participate in upcoming FDP	
Plan of Implementing in HiCET (if any) :	
Signature of the Faculty	Principal

Copy of the Event Brochure / Invitation:

Five Day National Level
Faculty Development Programme
(Hybrid Mode)
"EXPLORING TEACHING STRATEGIES AND RESEARCH SCOPE IN RENEWABLE ENERGY SECTORS"
02nd January to 06th January 2024.

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Organized by
Department of
Electrical and Electronics Engineering

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Managing Trustee.

Dr. Priya Sathish Prabhu K
Executive Trustee & Secretary,
Hindusthan Educational and Charitable Trust.

PATRONS

Dr. Karunakaran K, CEO, Hindusthan Institutions

Dr. Jaya J, Principal, HiCET

CONVENER

Dr. Ananthamoorthy N P
Professor & Head, Department of EEE, HiCET

FDP - COORDINATORS

Prof. G Muthuram , Associate Professor/ EEE.

Prof. M P Viswanathan, Associate Professor/ EEE.

Prof. A Khaja Najumudeen, AP/EEE

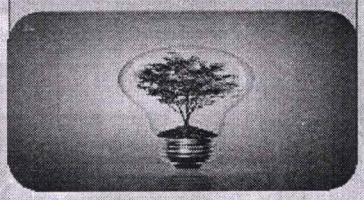
ORGANISING COMMITTEE

Dr. Sekar K, Professor/ EEE.
Dr. Rajeshkanna R, Associate Professor/ EEE.
Dr. Mathan K, Associate Professor/ EEE.
Mrs. Nandhini B, Associate Professor/ EEE.
Mr. Joshua Daniel S, Assistant Professor/ EEE.
Mr. Saravanakumar K, Assistant Professor/ EEE.
Mr. Maheshkumar N, Assistant Professor/ EEE.

Five Day National Level
Faculty Development Programme
(Hybrid Mode)
"EXPLORING TEACHING STRATEGIES AND RESEARCH SCOPE IN RENEWABLE ENERGY SECTORS"
02nd January to 06th January 2024.

Name: .....
Designation: .....
Department: .....
Educational Qualification: .....
Institution: .....
Address for Communication: .....
.....
.....
Mobile No.: .....
E-mail: .....
Place:
Date:

Signature of the Participant



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HiCET

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TÜVRheinland CERTIFIED

Organized by

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

5 Day National Level Faculty Development Programme (*Hybrid Mode*)

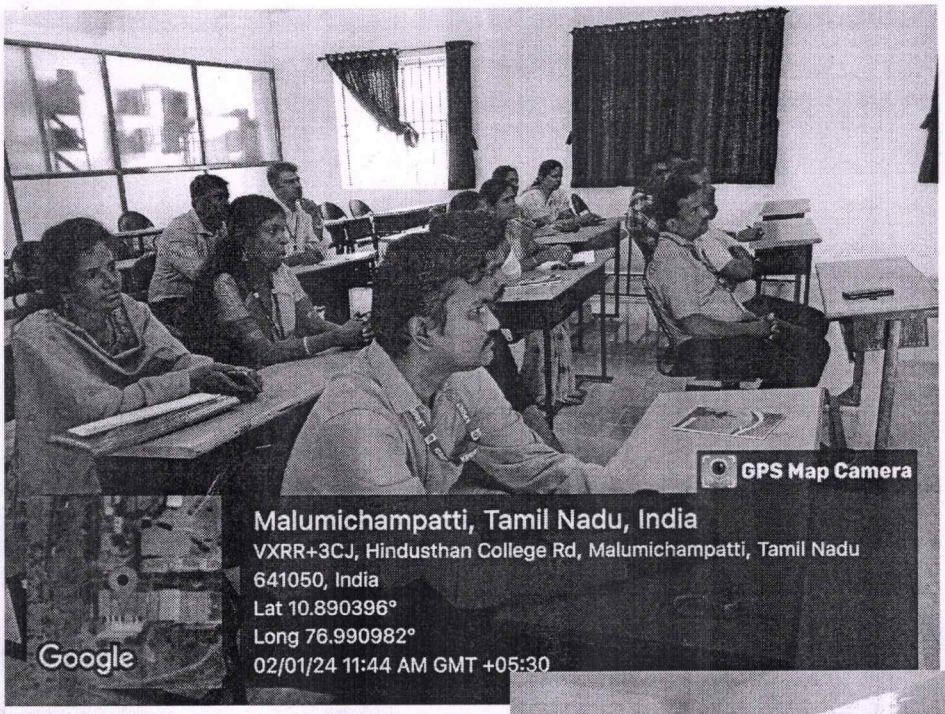
"EXPLORING TEACHING STRATEGIES AND RESEARCH SCOPE IN RENEWABLE ENERGY SECTORS"

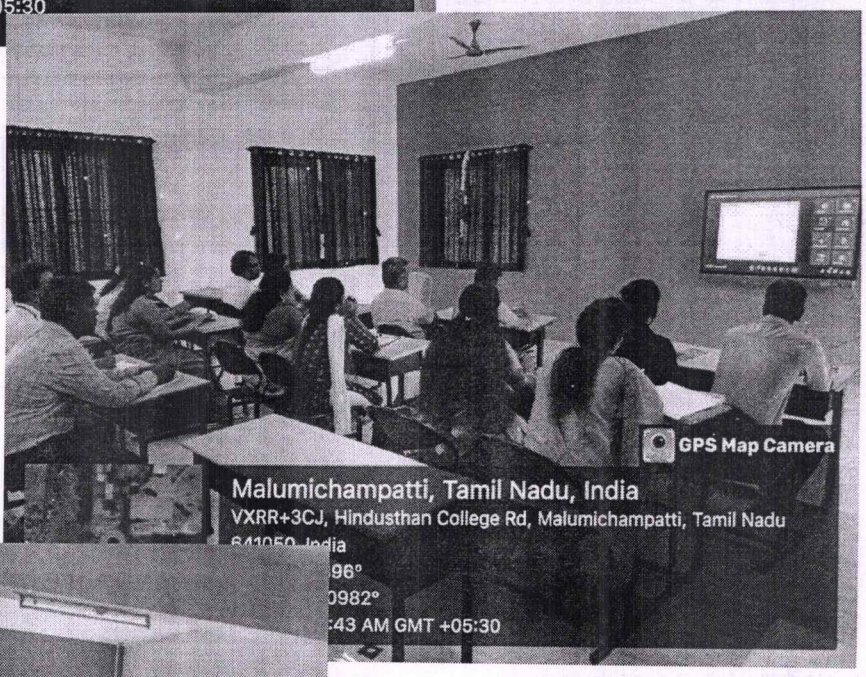
02nd January to 06th January 2024.

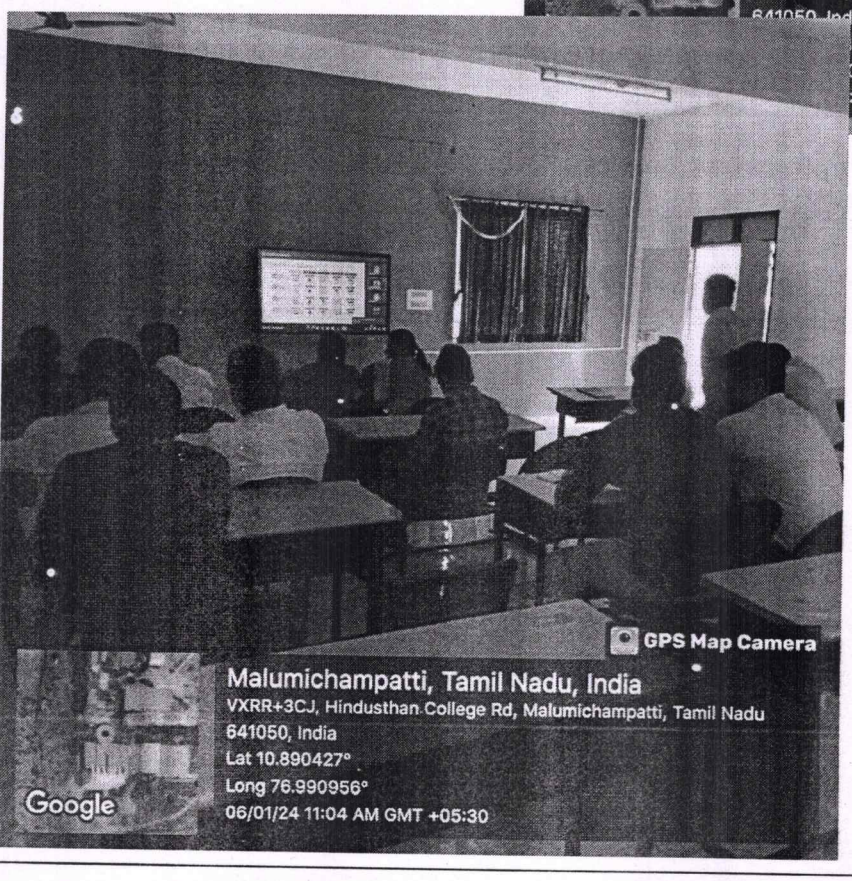
PROGRAMME SCHEDULE

Day/Date		10:00 AM to 12.00 Noon	02.00 PM to 3.30 PM	
Day-1 02.01.2024 Tuesday		Title: Challenges & Opportunities in Solar PV Systems & Its Technical Behaviour Dr. S PRAGASPATHY, Professor/EEE Vishnu Institute of Technology (Autonomous), Bhimavaram, Andhra Pradesh	Title : Research Scope in Renewable Energy Systems for Budding Researchers Dr. N P ANANTHAMOORTHY HoD/EEE Hindusthan College of Engineering and Technology, Coimbatore-32, Tamil Nadu.	
Day-2 03.01.2024 Wednesday		Title: Solar Bifacial Photovoltaic System for Sustainable Environment Dr. S. MANIKANDAN, Assistant Professor (Research)/ Mechanical Engg., SRM Institute of Science and Technology, Chennai, Tamil Nadu.	Title : Challenges and Issues in Hybrid Energy Systems- Solar and Wind. Dr. K SEKAR Professor/EEE Hindusthan College of Engineering and Technology, Coimbatore-32, Tamil Nadu.	
Day-3 04.01.2024 Thursday		Title: Biomass Gasification for Sustainable Development and Funding Opportunities Dr. D. SAKTHIVADIVEL, Associate Professor/School of Mechanical Engg. Assistant Director, Sponsored Research and Industrial Consultancy (SponRIC), Vellore Institute of Technology, Vellore, Tamil Nadu.	Title : Approach of Renewable Energy Process using Artificial Intelligence Dr. Rahul R CEO / RRM NEXT, ChennaiTamil Nadu.	
Day-4 05.01.2024 Friday		Title: Role of Renewable Energy Sources in Power Quality Improvement. Dr.JAGATHEESAN K, Professor/EEE, Paavai Engineering College, Erode, Tamil Nadu.	Title: Perovskite Solar Cell and it's Future Scope. Dr. P.MONIYA, Assistant Professor /EIE, Hindusthan College of Engineering and Technology, Coimbatore-32, Tamil Nadu.	
Day-5 06.01.2024 Saturday		Title: Solar Powered Fast and Hybrid Chargers for Electric Vehicles Dr. M. SABARIMUTHU, Assistant Professor Sr. Grade/ EEE, Kongu Engineering College, Perunduzi, Tamil Nadu.	Title : Development and Future Scope of Battery Management Systems in Electric Vehicles Prof. G Muthuram Associate Professor/EEE Hindusthan College of Engineering and Technology, Coimbatore-32, Tamil Nadu.	

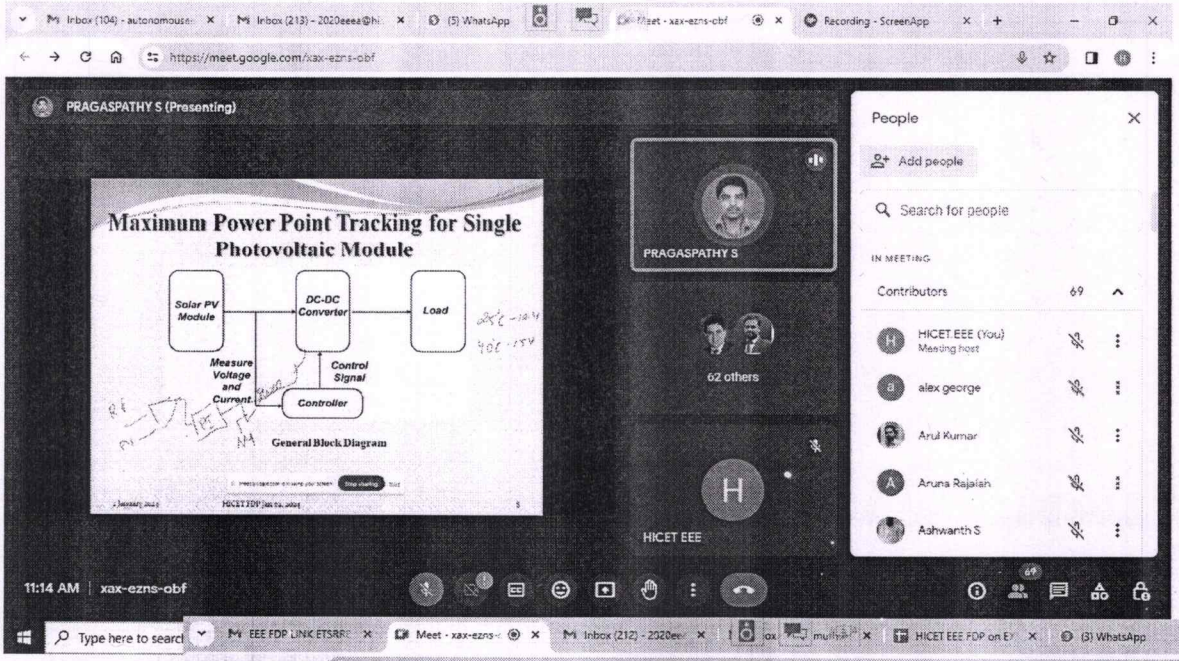
Geo Tagged Photographs of Event – 2 Nos: PHYSICAL MODE

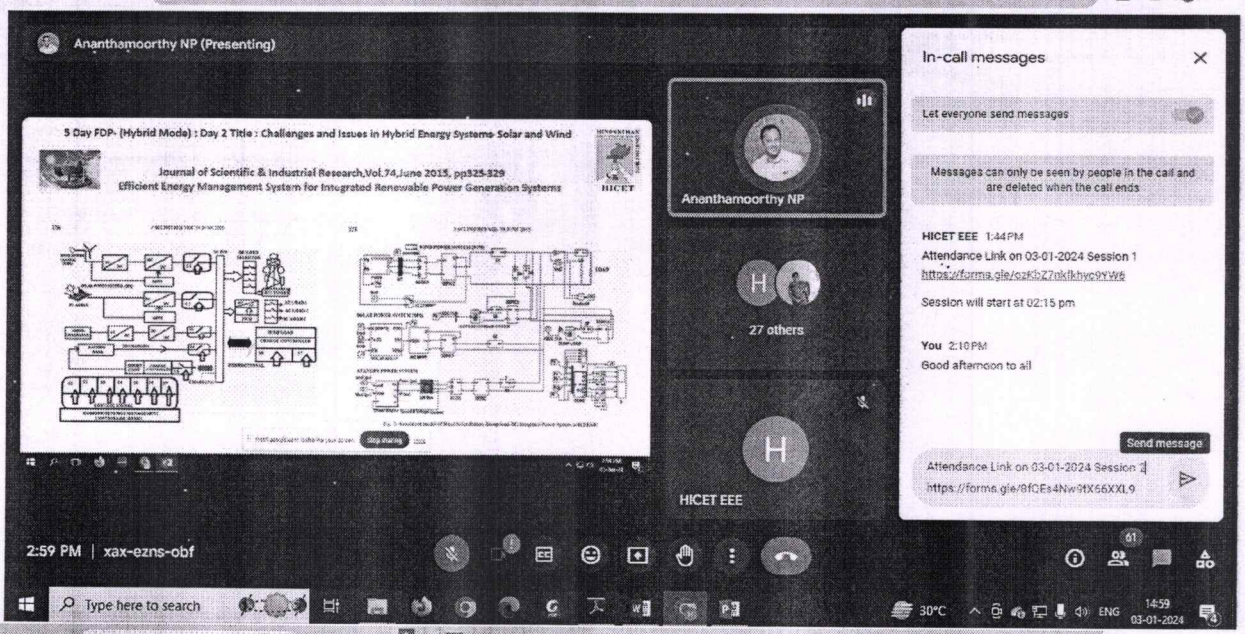


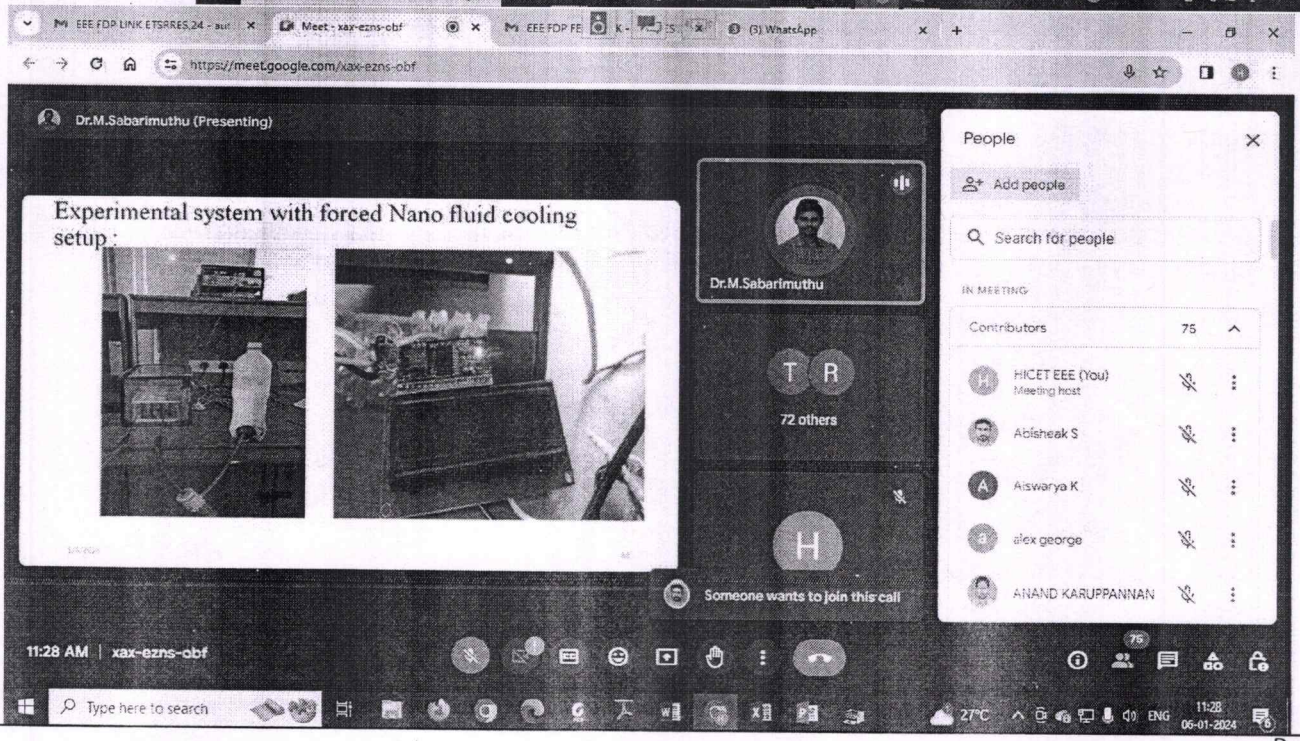




ONLINE MODE :


PRAGASPATHY S (Presenting)
Maximum Power Point Tracking for Single Photovoltaic Module
Solar PV Module
DC-DC Converter
Load
Measure Voltage and Current
Control Signal
Controller
General Block Diagram
PRAGASPATHY S
62 others
HICET EEE
People
Add people
Search for people
IN MEETING
Contributors 69
HICET EEE (You) Meeting host
alex george
Arul Kumar
Aruna Rajaiah
Ashwanth S
11:14 AM | xax-ezns-obf


Ananthamoorthy NP (Presenting)
5 Day FDP- (Hybrid Mode) : Day 2 Title : Challenges and Issues in Hybrid Energy Systems-Solar and Wind
Journal of Scientific & Industrial Research,Vol.74,June 2015, pp325-329
Efficient Energy Management System for Integrated Renewable Power Generation Systems
Ananthamoorthy NP
27 others
HICET EEE
In-call messages
Let everyone send messages
Messages can only be seen by people in the call and are deleted when the call ends
HICET EEE 1:44 PM
Attendance Link on 03-01-2024 Session 1
https://forms.gle/ozKbZ7nkfkhyc9YW6
Session will start at 02:15 pm
You 2:10 PM
Good afternoon to all
Send message
Attendance Link on 03-01-2024 Session 2
https://forms.gle/9fQEs4Nw9tX66XXL9
2:59 PM | xax-ezns-obf


Dr.M.Sabarimuthu (Presenting)
Experimental system with forced Nano fluid cooling setup :
Dr.M.Sabarimuthu
72 others
Someone wants to join this call
People
Add people
Search for people
IN MEETING
Contributors 75
HICET EEE (You) Meeting host
Abisheak S
Aiswarya K
alex george
ANAND KARUPPANNAN
11:28 AM | xax-ezns-obf

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Convener
(Dr. Ananthamoorthy N P)
HoD/EEE

Principal
(Dr. Jaya J)

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Dr CSS Anupama — **AP / EIE**

of V. R. Siddhartha Engineering College

Participated in the **5 Day National Level Faculty Development Programme** (*Hybrid Mode*) On ***"EXPLORING TEACHING STRATEGIES AND RESEARCH SCOPE IN RENEWABLE ENERGY SECTORS"*** Organized by **Department of Electrical and Electronics Engineering** at **Hindusthan College Of Engineering And Technology, Coimbatore, Tamil Nadu from 02nd January to 06th January 2024.**

Convener
(Dr. Ananthamoorthy N P)
HoD/EEE

Certificate No.: EE8

Principal
(Dr. Jaya J)

Hindusthan
College of Engineering and Technology,
Valley Campus, Coimbatore 641 032.
HICET www.hicet.ac.in

Report for Seminar on **"Research Methodology: *Impact and Effectiveness on Publication"*** organized

Name of the Faculty : **MUTHURAM G**	
Department : **EEE**	Designation : **Associate Professor / EEE**
Name of the Event : Seminar on "**Research Methodology: Impact and Effectiveness on Publication**"	
Level : International / National / State / Regional / Industry / University / **College Level**	
Mapping with UN SDGs (Tick the relevant) : No poverty **(SDG 1)**, Zero hunger **(SDG 2)**, Good health and well-being **(SDG 3)**, **Quality Education (SDG 4)**, Gender equality **(SDG 5)**, Clean water and sanitation **(SDG 6)**, Affordable and clean energy **(SDG 7)** Decent work and economic growth **(SDG 8)**, Industry, innovation and infrastructure **(SDG 9)**, Reduced inequalities **(SDG 10)**, Sustainable cities and communities **(SDG 11)**, Responsible consumption and production **(SDG 12)**, Climate action **(SDG 13)**, Life below water **(SDG 14)**, Life on land **(SDG 15)**, Peace, justice, and strong institutions **(SDG 16)**, and Partnerships for the goals **(SDG 17)**.	
Venue / Mode : **Edison Hall / EIE Block – HiCET / Physical Mode**	
No. of Days : **01**	Dates : **11.03.2024 , Monday**
Funded by : UGC / CSIR / DST / DSIR / TNSCST / ICSSR /NCERT /INSA/ **Management** etc	
No. of Participants : **77**	Registration charges (if any) : NIL
Name and Designation of Resource Person(s) : **Dr. MOHANDAS R** Associate Professor, Department of Electrical and Electronics Engineering, New Horizon College of Engineering, Bengaluru, Karnataka – 560 103.	
Outcome: The seminar on **"Research Methodology: Impact and Effectiveness on Publications"** provided a concise yet enlightening exploration into the crucial role of research methodologies in academic publications. Attendees gained practical insights, fostered interdisciplinary collaboration, and established valuable connections, leaving with a renewed commitment to methodological excellence and scholarly advancement.	
Remarks and Feedback on the Event : **Excellent**	
Plan of Implementing in HiCET (if any) :	
Signature of the Faculty	Principal

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PRINCIPAL
Hindusthan College Of Engineering & Technology
COIMBATORE - 641 032.

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

In association with

IE-I STUDENT CHAPTER

Cordially Invites You All for The

A NATIONAL LEVEL TECHNICAL SEMINAR ON

"RESEARCH METHODOLOGY: IMPACT AND EFFECTIVENESS ON PUBLICATION"

CHIEF GUEST

Dr. Mohandas R

Associate Professor,
Department of Electrical and Electronics Engineering,
New Horizon College of Engineering,
Bengaluru, Karnataka – 560 103.

DATE : 11th MARCH 2024, MONDAY.
TIME : 11:00 AM TO 12:30 PM.
VENUE : EDISON HALL/ EIE BLOCK, HICET.

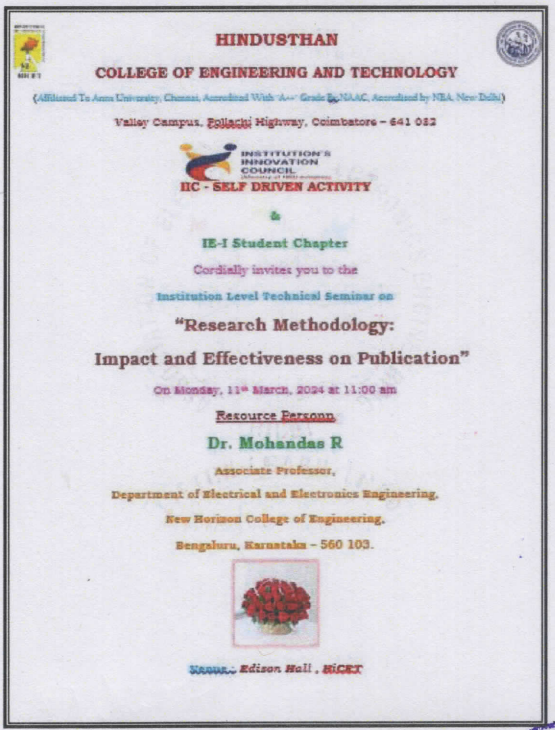
PATRONS

PRINCIPAL
Dr. J JAYA

CEO
Dr. K KARUNAKARAN

CONVENOR
Dr. N P ANANTHAMOORTHY
HoD/ EEE

CO-ORDINATORS
Dr. K MATHAN AsP/EEE
Mr. G MUTHURAM AsP/ EEE
Mr. N MAHESHKUMAR AP/ EEE



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&

IE-I Student Chapter

Cordially invites you to the

Institution Level Technical Seminar on

"Research Methodology:

Impact and Effectiveness on Publication"

On Monday, 11th March, 2024 at 11:00 am

Resource Personn

Dr. Mohandas R

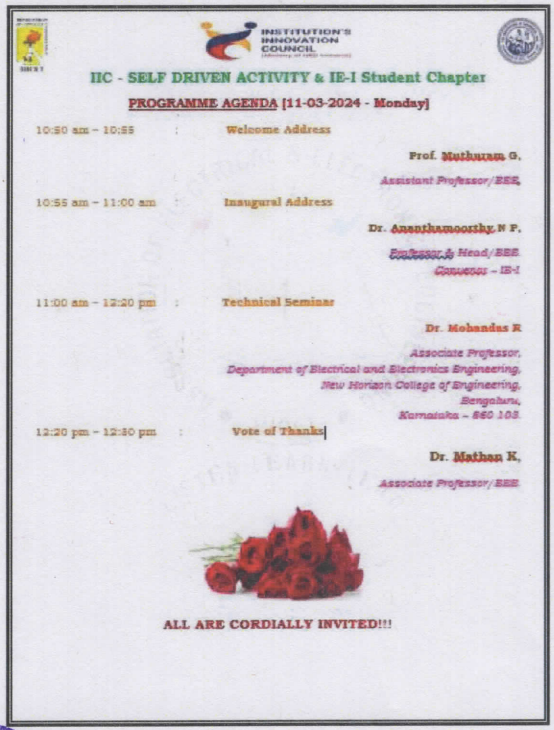
Associate Professor,

Department of Electrical and Electronics Engineering,

New Horizon College of Engineering,

Bengaluru, Karnataka – 560 103.

Venue : Edison Hall , HiCET



INSTITUTION'S INNOVATION COUNCIL

IIC - SELF DRIVEN ACTIVITY & IE-I Student Chapter

PROGRAMME AGENDA [11-03-2024 - Monday]

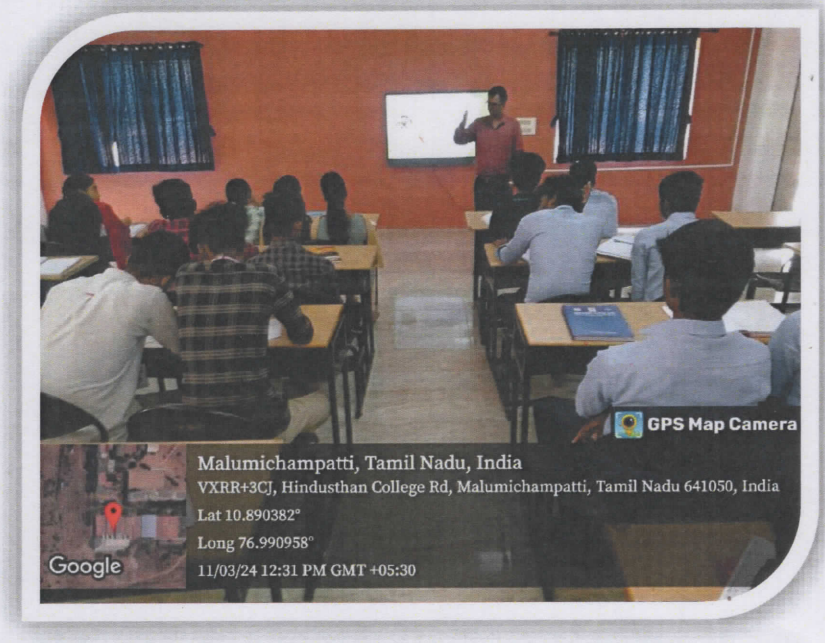
10:50 am – 10:55	:	Welcome Address Prof. Muthuram G, Assistant Professor/EEE,
10:55 am – 11:00 am	:	Inaugural Address Dr. Ananthamoorthy. N P, Professor & Head/EEE Convenor – IE-I
11:00 am – 12:20 pm	:	Technical Seminar Dr. Mohandas R Associate Professor, Department of Electrical and Electronics Engineering, New Horizon College of Engineering, Bengaluru, Karnataka – 560 103.
12:20 pm – 12:30 pm	:	Vote of Thanks Dr. Mathan K, Associate Professor/EEE.

ALL ARE CORDIALLY INVITED!!!

HINDUSTHAN COLLEGE OF ENGG & TECH. CBE - 32

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Department of
Electrical and Electronics Engineering.

Certificate of Participation

This is to certify that

Mr. NITHISH JOYAL A III YEAR - EEE

OF HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY COIMBATORE -32, has actively Participated in a one day A NATIONAL LEVEL TECHNICAL SEMINAR ON "RESEARCH METHODOLOGY: IMPACT AND EFFECTIVENESS ON PUBLICATION" on 11th MARCH 2024, Organized by IE (I) – STUDENT CHAPTER & Institution's Innovation Council

Convener
Dr N P Ananthamoorthy
HoD/EEE

Principal
Dr J Jaya

HINDUSTHAN

COLLEGE OF ENGINEERING AND TECHNOLOGY

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IIC - Self Driven Activity
Department of
Electrical and Electronics Engineering.

Certificate of Participation

This is to certify that

Mr. PRADEEP K S III YEAR - EEE

OF HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY COIMBATORE -32, has actively Participated in a one day A NATIONAL LEVEL TECHNICAL SEMINAR ON "RESEARCH METHODOLOGY: IMPACT AND EFFECTIVENESS ON PUBLICATION" on 11th MARCH 2024, Organized by IE (I) – STUDENT CHAPTER & Institution's Innovation Council

Convener
Dr N P Ananthamoorthy
HoD/EEE

Principal
Dr J Jaya

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Tel: +91 422 4242424 www.hicet.ac.in

RESEARCH METHODOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

IIC – SELF DRIVEN ACTIVITY

Organises

TECHNICAL SEMINAR ON

"RESEARCH METHODOLOGY: IMPACT AND EFFECTIVENESS ON PUBLICATION"

Sl. No.	Register Number	Name of the Student	Year & Department	Signature
1	720723208002	S. Ambiga	I ME EEE	S. Ambiga
2	720723208019	S. AJAY	I ME EEE	S. Ajay
3	7207222080[illegible]	Naveen R	IInd P.G	R Naveen.
4	720723208014	SUMITHRA.M	I ME/EEE	M.Sumithra
5	720723208015	SWATHY.K	I ME/EEE	K. Swathy.
6	720722208001	ARAVINDH.P	I ME/EEE	Aravindh.
7	720723208003	BABU.M	II ME/EEE	Babu.
8	720722208003	BABU K	I ME/EEE	Babu
9	720722208009	NAVEENRAJ.R	I ME/EEE	Naveenraj.R
10	720722208004	DEEPA.E	I ME/EEE	Deepa
11	720723208017	VIGNESH.R	II ME/EEE	Vignesh.
12	720722208007	NARESH S	I ME/EEE	Naresh
13	720723208007	VIGNESH RGAYATHRI.V	II ME/EEE	Vignesh
14	720722208008	NAVEEN R	I ME/EEE	Naveen
15	720723208013	Sathish kumar.L	II ME/EEE	Sathish kumar.L
16	720722208012	RAMJI S	I ME/EEE	Ramji S.
17	720723208006	BrindhaDevi.K	II ME/EEE	BrindhaDevi
18	720722208014	SONALI B	I. ME/EEE	Sonali.B
19	720723208004	BERNARDSHAW.S	II ME/EEE	Bernardshaw.S.
20	720722208018	Siva Kumar. T	I. ME/EEE	Siva Kumar.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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"RESEARCH METHODOLOGY: IMPACT AND EFFECTIVENESS ON PUBLICATION"

Sl. No.	Register Number	Name of the Student	Year & Department	Signature
21	720721105805	S. RAMAPRAHASH	III - EEE	S. Ramaprakash
22	720721105801	D. GOKULAKRISHNAN.	III - EEE	
23	720721105040	J. Prakash.	III - EEE	J
24	720721105058	P. Steward Gowjyan	III - EEE	P. Stf
25	720721105011	S. ArunMozhiVarman	III - EEE	S. Arun
26	720721105063	S. Naveen Kumar	III - EEE	S
27	720721105039	Pradeep K.S	III - EEE	K.S Pradeep
28	720721105061	Vishnuprakash R	III - EEE	R. Vishnu
29	720721105023	meyyanathan. S	III - EEE	S.M
30	720721105020	Gunasekar. M.	III - EEE	M. Gunasekar.
31	720721105001	K.V. Abhishek	III - EEE	K.V.A
32	720721105803	S. Mohammed Salmon	III - EEE	S
33	720721105048	R. Sakthi	III - EEE	Sakthi.
34	720721105046	S. Ragul	III - EEE	S. Ragul.
35	720721105050	Sathish. B	III - EEE	Sathish. B
36	720721105016	E. Gokulgandhi	III - EEE	Gokulgandhi. E
37	720722105048	R. Saran	II - EEE	R
38	720722105060	S. Vignesh	II - EEE	S. Vig
39	720722105019	S. Jaya Prasanth	II - EEE	S. Jayap.
40	720722105802	E. Prem Kumar	II - EEE	E. Prem

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Sl. No.	Register Number	Name of the Student	Year & Department	Signature
41	720721105049	N). Santhosh	3rd yr EEE	N. Santhosh.
42	720721105062	Vishnukumar. S	3rd year EEE	Vishy. S.
43	720721105017	Gopi. A	3rd year EEE	A
44	720721105033	HOWNISH. A	3rd YR EEE	Howniish
45	720721105032	Mohanesh SM	3rd year. EEE	M
46	720721105023	KHAMALESH. M.D	III rd year EEE	M.D.
47	720721105060	Tarun S	III year EEE	Tarun
48	720721105006	K.R. Vijin Raj	III yr EEE	K.R.
49	720721105004	A-AJAY	III year EEE	A. Ajay
50	720721105005	S. AJAY KUMAR	III - YEAR - EEE	S. Ajay Kumar
51	720721105008	AMAL A.K	III - YEAR EEE	A.K
52	720721105024	KIRAN SOJAN	III - YEAR EEE	
53	720721105038	M. PONPARTHIPAN	III - YEAR EEE	M. Ponparthipan
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57	720723104041	Dhanesh A.R	II - EIE	Dhanesh
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Sl. No.	Register Number	Name of the Student	Year & Department	Signature
61	720721105027	N. Mathiyarasan	III nd year EEE	N. Mathi
62	T20722105061	S. Vikram	II nd year EEE	S. Vikram
63	T20722105021	V. Kalai Selvan	II yr EEE	V. Kalai
64	720722105057	T. SUGUMARAN	II nd year EEE	T. Sugumaran
65	T20722105015	P. Gowrajalingam	II nd year EEE	P. Gowr
66	T20722105052	V. Sivapriya	II nd year EEE	V. Sivapriya
67	T20722105010	AWINI	II nd yr EEE	Awini
68	720722105019	Nikshitha	II nd yr EEE	Nikshitha
69	720721105015	Geetha. C	III rd yr EEE	Geetha. C
70	720721105044	Preethi. P	III rd yr EEE	Preethi. P
71	720721105054	Soniya. D	III - EEE	Soniya. D
72	T20721105053	Sathya. S	III - EEE	Sathya. S
73	720721105036	A. Nithish Joyal	III - EEE	A. Nithish Joyal
74	20105029	Mohammad Abdul Basith C	IV - EEE	
75	20105004	Anandhakrishnan. M. D	IV EEE	
76	20105001	Abhinand. M. R	IV EEE	
77	20105034	Nikhil Das C	IV - EEE	
78				
79				
80				

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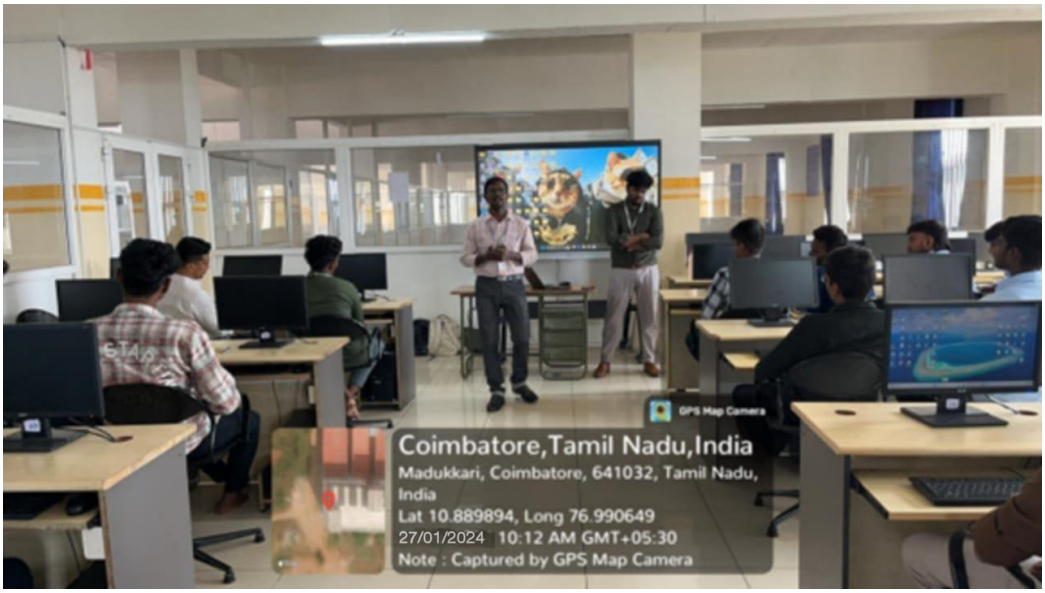
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Report for One Day Workshop on Innovative Problem Solving Through Effective Ideation

Name of the Faculty : Mrs. V. DEVI, Dr. D. Satheesh Kumar	
Department : AIML	Designation: Assistant Professor, Assosciate Professor
Name of the Event : Hands on Training Advanced Options in MS-Excel for Non-Teaching staffs	
Level : 1	
Venue / Mode : Offline Mode	
No. of Days : 1	Dates: 27.01.2024
Funded by : NIL	
No. of Participants: 34 No. of Staff Members :	Registration charges (if any): NIL
Name and Designation of Resource Person(s) : Dr.D.Satheesh Kumar Associate Professor , Dept of AIML, Hindusthan College of Engineering and Technology, Coimbatore	
Outcome:- Development of knowledge in MX Excel and minimizes errors in data handling and processing.	
Remarks and Feedback on the Event: It was highly informative and provided clear guidelines and hands on experience to gsin knowledge in Excel.	
Plan of Implementing in HiCET (if any):	
Signature of the Faculty	HoD / Principal

Geo Tagged Photographs of Event – 2 Nos




GPS Map Camera
Coimbatore,Tamil Nadu,India
Madukkari, Coimbatore, 641032, Tamil Nadu, India
Lat 10.889894, Long 76.990649
27/01/2024 10:12 AM GMT+05:30
Note : Captured by GPS Map Camera

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Report for Professional Development Training Program for Non-Teaching Staff - Awareness on Computer Hardware Essentials -Organized

Name of the Faculty : Mrs.Karpakam S ,Dr.Poonguzhali P.K	
Department :Electronics and Communication Engineering	Designation : Associate Professor
Name of the Event: **Awareness on Computer Hardware Essentials**	
Level :College Level	
Venue / Mode :Simulation Lab I	
No. of Days : One Day	Dates :17.05.2024
Funded by :Nil	
No. of Participants : 16	Registration charges (if any) : Nil
Name and Designation of Resource Person(s) : Mr.Manikandan R , Lab Technician /CMD, Department of ECE,HICET	
Outcome: This professional development training program on **Awareness Computer Hardware Essentials** for Non-Teaching staff will provide an in-depth overview of the basic parts of computer hardware, the range of options, and the characteristics that set hardware apart from software. The program also helps to explore high-end hardware upgrades and troubleshooting techniques for common hardware issues.	
Remarks and Feedback on the Event : Good	
Plan of Implementing in HiCET (if any) : Nil	
Signature of the Faculty	HoD / Principal

opy of the Event Brochure / Invitation:

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HICET

Department of Electronics and Communication Engineering

Organizes

Professional Development Training Program for Non Teaching Staff

"Awareness on Computer Hardware Essentials"



>>> Resource Person

Mr.Manikandan R
Lab Technician / CMD
ECE Department
HICET

17.05.2024 | ECE Department | 2:30 pm

Coordinators

Mrs. Karpakam S , AP/ECE
Dr. Poonguzhali P K , ASP/ECE

Convenor

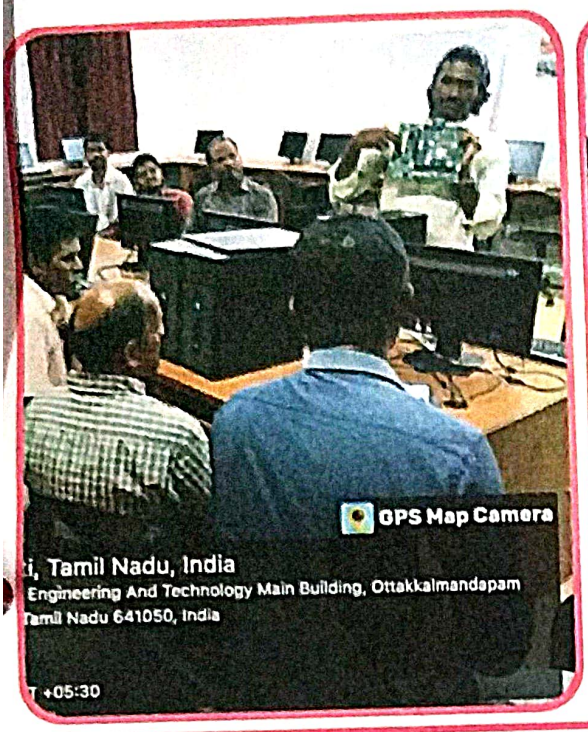
Dr.P.Vijayalakshmi
HOD/ECE

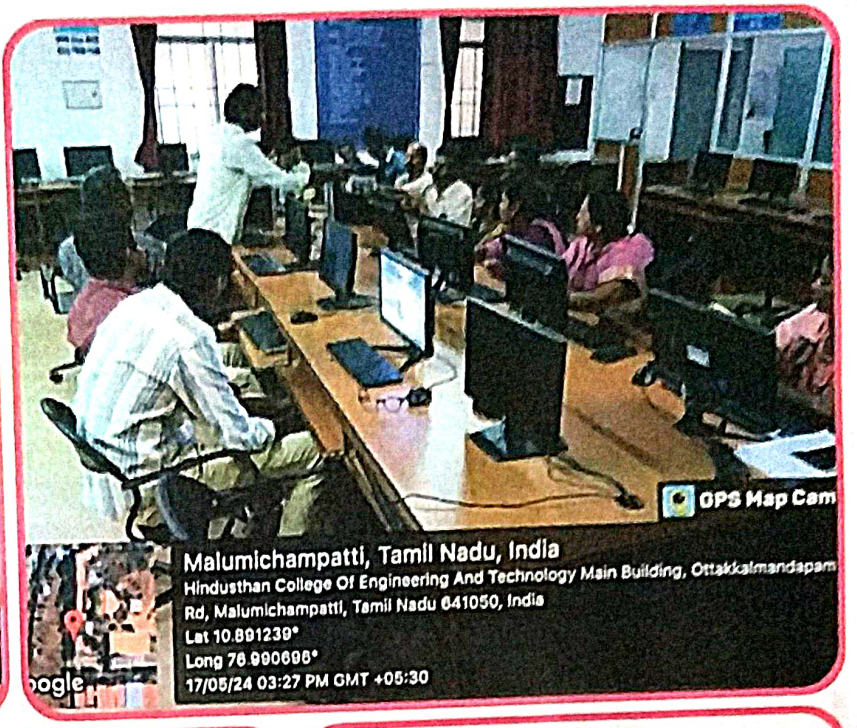
Patrons

Dr. Jaya J
Principal

Dr. Karunakaran K
CEO

eo Tagged Photographs of Event:









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Report for FDP on Real Time Automation Solutions Using AI organized / ~~participated~~

Name of the Faculty : Dr P.F.KHALEELUR RAHIMAN , Mr. T. BOOBALAN	
Department :ECE	Designation : Associate Professor / Assistant Professor
Name of the Event : **FDP on Real Time Automation Solutions Using AI**	
Level : NATIONAL LEVEL FDP	
Venue / Mode : ONLINE	
No. of Days : FIVE DAYS	Dates : 19/06/2023 to 23/06/2023
Funded by : Management GSIR / DST / DSIR / TNSCST / ICSSR /NCERT /INSA/ Management etc	
No. of Participants : 75	Registration charges (if any) : NIL

Name and Designation of Resource Person(s) :

1. Dr. P. Rajalakshmi, Professor and Head Robotics Engineering, Karunya University
2. Mr.Venkatesh, Design Engineer, Tessolve Semiconductor Private Limited
3. Mr.M. Jagatha Guru and Mr. Naveen, CEO, Illuminen Technologies
4. Mr.A. Syed Ibrahim, Technical Lead, Enthu Technology Solutions Pvt Ltd
5. Dr.D. Karunanidhi,Professor,HICET
6. Dr.P.T.Saravanakumar,Professor and Head Mechatronics Department,HICET
7. Mr T. Boobalan, Assistant Professor, ECE Department,HICET

Outcome :

Participants were able to understand the Digital Twin Technology for Industrial Automation, Programming Laguages used for AI, Automation in Wireless Communication, Data Logger Using TCP/IP, Automation in Fabric Coluring System, Industrial IOT using LoRaWAN Technology, Funding Agencies for Research, AI to Face Industry Revolution 4.0 and also Learned STM32 Basic Programming Modules by Hands on Traing.

Remarks and Feedback on the Event :

Participants enthusiastically participated and feel good and also attended the Q & A session and got motivated.

Plan of Implementing in HiCET (if any) :

NIL

Signature of the Faculty HoD Principal

Copy of the Event Brochure / Invitation:

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Department of Electronics and Communication Engineering organizes

Five Days Online FDP on

"Real Time Automation Solutions Using AI"

19th June, 2023 to 23th June, 2023



Google Meet Link
https://meet.google.com/bys-qbsj-sjw

Registration link
https://forms.gle/5DMcFAmh8W8fNx4R9

Convenor
Dr.P.Vijayalakshmi, HoD/ECE

Co-ordinators
Dr.P.F.Khaleelur Rahlman, ASP/ECE
9994641251
Mr.T.Boobalan, AP/ECE
9655729385

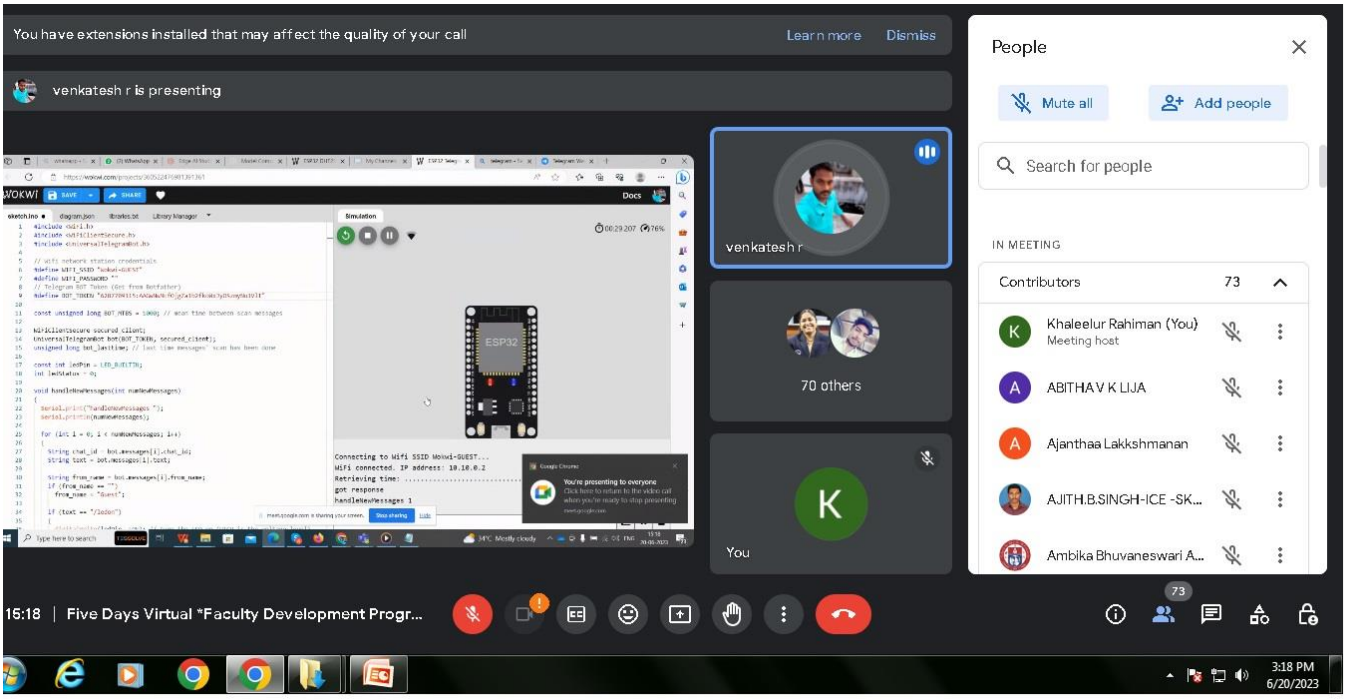
Patrons

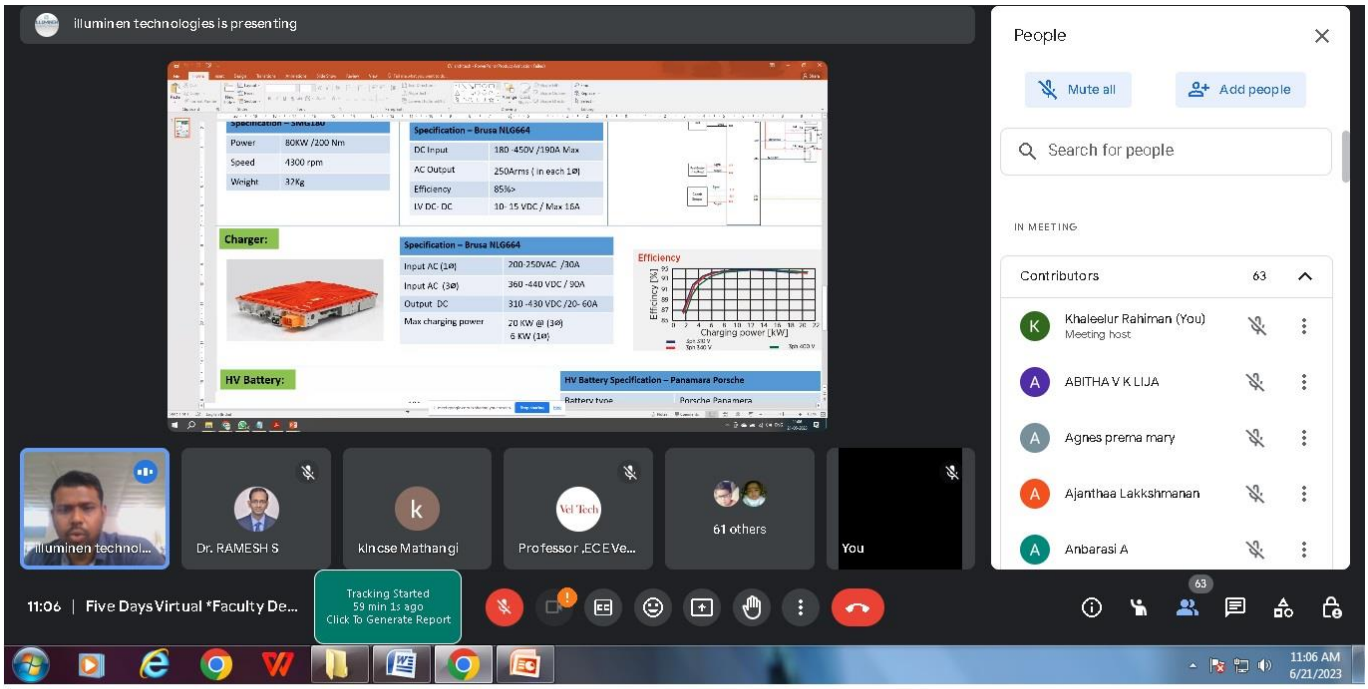
Dr.K.Karunakaran
CEO

Dr.J.Jaya
Principal

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Geo Tagged Photographs of Event – 2 Nos:





Copy of the Participation/Issue Certificate:



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Valley Campus, Pollachi Highway, Coimbatore – 641032.

Department of Electronics and Communication Engineering

Five Days Online FDP on

"Real Time Automation Solutions Using AI"

CERTIFICATE OF PARTICIPATION

DR.P.F.KHALEELUR RAHIMAN

Associate Professor

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

has successfully completed one week online FDP on "**Real Time Automation Solutions using AI**" organized by the Department of Electronics and Communication Engineering, Hindusthan College of Engineering and Technology from **19.06.2023 to 23.06.2023**.

Certificate ID:
VQMNNC-CE000002

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TRANSFORMING ENGINEERING SYSTEMS FOR SUSTAINABILITY (TESS-2023)

NOVEMBER 29 & 30 2023

ORGANIZED BY

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Coimbatore, INDIA
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Coimbatore, INDIA

JOINTLY WITH

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International Conference
on
Transforming Engineering Systems for Sustainability
(TESS-2023)

“29.11.2023 & 30.11.2023”

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Mr P Sureshkumar, Assistant Professor, CSE
Dr R Senthilkumar, Assistant Professor, CSE
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Ms T Sakthisree, Assistant Professor, IT
Ir Dr Yoon Li Wan, Clean Technology Lab, School of Engineering, Taylor's University
Ir Dr Nagentrau, Clean Technology Lab, School of Engineering, Taylor's University

MESSAGE FROM SECRETARY



Smt. TRK SARASUWATHI

SECRETARY

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The Management is extremely happy to see the exhaustive work of organizing the International Conference on Transforming Engineering Systems for Sustainability (TESS-2023). I am sure that the event will make the faculty and researches to educate their knowledge in the field of intelligent computing and communicating systems.

Today, technology is developing at a very fast pace and new areas of research are coming up. Now it is high time that everybody from us will have to think and commit for the contribution. Moreover, there is a growing need for more and more industry institute and linkage.

I convey my blessings and good wishes to all members involved dedicatedly for this event.

MESSAGE FROM EXECUTIVE SECRETARY



Dr. K. PRIYA

EXECUTIVE SECRETARY

HINDUSTHAN EDUCATIONAL

& CHARITABLE TRUST

It gives me immense pleasure to know that the HICET & HITECH jointly with Taylor's University organizes the International Conference on Transforming Engineering Systems for Sustainability (TESS-2023). In order to disseminate ideas and inspire future work, such conferences are necessary where young students, early-stage researchers and senior scientists meet together to not only share their latest findings and results but also promote their ideas and insights.

The conference will help in bringing all the experts and researchers in one forum to exchange knowledge and identify areas for further research.

My warmest good wishes for a successful and productive conference.

MESSAGE FROM CEO



Dr. K. KARUNAKARAN

CHIEF EXECUTIVE OFFICER, HINDUSTHAN EDUCATIONAL INSTITUTIONS

I am happy to note that the HICET & HITECH jointly with Taylor's University are conducting International Conference on Transforming Engineering Systems for Sustainability (TESS- 2023). I am sure that this proceeding of the conference, as usual, will be filled with interesting and important information containing research articles, including achievements of the students and staff projects.

I am pleased to state that these institutions by virtue of excellent infrastructural facilities, academically sound HODs, committed faculty members and enthusiastic student's community are earning a continuous reputation with many laurels to their credits.

MESSAGE FROM PRINCIPAL-HICET



Dr. J. JAYA

PRINCIPAL

HINDUSTHAN COLLEGE OF ENGINEERING & TECHNOLOGY

I am delighted to note that the esteemed institutions HICET & HITECH jointly with Taylor's University organizing the International Conference on Transforming Engineering Systems for Sustainability (TESS-2023)".

The International conferences are necessary to bring in a culture of information exchange and feedback on developing trends in technologies. Certainly, this type of conferences not only brings all the researchers, students under one platform, but it also inculcates the research culture among the entire fraternity of Education in the country, there by contributing to the development of the nation.

I wish the team all success

MESSAGE FROM PRINCIPAL-HITECH



Dr. C.NATARAJAN

PRINCIPAL

HINDUSTHAN INSTITIUTE OF TECHNOLOGY

I am happy to learn that an event, International Conference on Transforming Engineering Systems for Sustainability (TESS-2023)" is being organized by our esteemed institutions HICET & HITECH jointly with Taylor's University. This conference intent to an in-depth look at the many issues raised by Electronics and Communication Technologies today, the obstacles and the opportunities created by the new developments, services and applications.

It is a step towards achieving our vision in becoming a prominent academic and research institution in-order to produce goal oriented human capital with the great research flair.

I wish the team all success

MESSAGE FROM CHIEF GUEST



Dr. PHANG SWEE KING,

DEPUTY DIRECTOR,

DIGITAL INNOVATION & SMART SOCIETY IMPACT LAB,

TAYLOR'S UNIVERSITY, MALAYSIA

I am thrilled to announce the collaboration between Hindusthan Institutions, Coimbatore, and Taylor's University, Malaysia, for the International Conference on Transforming Engineering Systems for Sustainability 2023 (TESS2023). As the Conference Chair, I see tremendous opportunities for both institutions.

The conference, with its accompanying proceedings, provides a crucial platform for exchanging scientific ideas in the rapidly evolving field of technology. Active participation promises significant gains for our universities, fostering knowledge transfer and collaboration between academia and industry.

My sincere appreciation to the organizing committee for their exceptional contribution in orchestrating the diverse range of activities, reflecting the inclusive and comprehensive nature of this conference. Congratulations to all speakers and delegates.

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Electric Vehicles Servicing Digital Support Platform. Pre-emptive Maintenance with Vehicular Data and Cost Information

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Abstract—The research focused on cost sharing in the context of cloud platforms for electric vehicle maintenance activities. Best platforms support pre-emptive EVs maintenance actions, which creates value for several maintenance e-related network partners in the automotive industry context. These partners include vehicle manufacturers and owners, EV service companies, spare part providing networks etc. In the context of costs, we discuss different pricing models for different stakeholders and hypothesized which of these are most likely to work initially and on which model users would be willing to spend money into. The authors also reflect on the EV usage related data based pre-emptive maintenance service and the potential user base to the current widely spread cloud services to discuss about the billion-dollar potential in vertically integrated value chains and EV (open data-based) maintenance services business models.

Keywords—Electric cars, Service, Platform, Service Capability, Maintenance, Vehicle data, IoT, Operations management, Cloud computing, Pre-emotiveness, Global Sustainability, Cloud Analysis, Costs management, Industry 4.0

EXPERIMENTAL INVESTIGATION ON THE MECHANICAL PROPERTIES OF WHITE/BROWN COIR FIBER EPOXY COMPOSITES: SUSTAINABLE PERSPECTIVE

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ABSTRACT

The replacement of synthetic fillers with natural fillers in composite systems leads to a reduction in environmental impact, specifically through the conservation of fossil resources and the minimization of energy requirements during the preparation of reinforcement. Natural fiber reinforced polymer composites are pivotal in the fabrication of environmentally friendly materials due to their elevated modulus, meticulous strength, and diminished carbon footprint. These materials play a significant role in sustainable engineering by offering favorable mechanical properties while concurrently mitigating adverse environmental impacts associated with carbon emissions. The conducted experimentation focuses on elucidating the strength characteristics of both white and brown coir fibers, as well as the corresponding biocomposites featuring a synthetic matrix. The preparation methodology involves employing vacuum infusion techniques. A 6% sodium hydroxide (NaOH) water solution, applied over a duration of 12 hours, was employed to treat the surface of the fibers. The tensile strength characteristicsof the fibers exhibited variability based on the timing of their harvest. Specifically, the tensile strength of white fibers reached 122 MPa, while brown coir fibers coconuts demonstrated a tensile strength of 133 MPa. The alkali treatment facilitated the removal of globular formations on the fiber surface and reduced lignin layers, resulting in improved interaction with the epoxy resin used. Consequently, chemically treated brown fibers contributed to a matrix strength increase of 156 MPa, while the inclusion of white fibers led to a matrix strength increase of 188 MPa.

STOCK MARKET ANALYIS USING AI

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ABSTRACT

Artificial intelligence (AI) is a fascinating topic that uses deep learning and sophisticated machine learning techniques to predict movements in stock prices. An overview of the main elements of using AI to stock market prediction is given in this abstract. It draws attention to the following points:Gathering and analysing enormous amounts of historical and current data—including stock prices, trade other pertinent information is essential for making stock market predictions. To improve prediction accuracy, architecture modifications and model hyperparameter optimization are carried out.To protect against possible losses, risk mitigation techniques including stop- loss orders and portfolio diversification are used.Users can comprehend the underlying assumptions behind predictions if AI algorithms offer comprehensible insights into prediction reasoning.Because of the volatile nature of the stock market and the potential for unforeseen events to affect AI model performance, it is imperative to regularly monitor and adjust to shifting market circumstances.When employing AI to anticipate the stock market, regulatorycompliance, ethical and legal issues, and legality should all be taken into an account.AI-powered stock market forecasting provides investors with useful tools so they may make informed decisions based on facts. However, it is crucial to understand that there are inherent uncertainties and unpredictability in the stock market, and AI models could not always produce precise projections. Risk control techniques including diversification and financial expert counsel are advised.

NITRATE SOURCES AND CONTAMINATION IN GROUNDWATER WITH EVALUATION OF NON-CARCINOGENIC HEALTH HAZARDS FOR SUSTAINABLE DEVELOPMENT FROM ARJUNANADI RIVER BASIN, SOUTH INDIA

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ABSTRACT

Nitrate contamination of groundwater is increasingly getting common in different parts of India. Here, we present new data about nitrate pollution and the associated health consequences for infant, children, and adult population by evaluating 94 groundwater samples from the Madurai and Virudhunagar regions within the Arjunanadi River Basin, situated at the southern region of India. Nitrate (9 - 221 mg L^{-1}) remained surpassed the WHO recommended limit (>45 mg L^{-1}) in 34% samples. Its spatial distribution demarcates an area of 456.3 km^2 in the risk zone with more than permissible nitrate. Among the shallow aquifers, about 16% of whole samples are in the high risk and 9% in very high-risk. Similarly, about 6% samples from deep of the aquifers are also in the category of high risk. Water Quality Index (WQI) indicates 39% samples as good, 48% groundwater samples as poor and 9% samples as very poor to unsuitable. The health risk assessment from intake (HQ_{intake}) and skin contact (HQ_{dermal}) suggests 64%, 45% and 32% of samples with THI >1 pose hazard for infant, children and adult population, respectively. The health risks and assessing groundwater quality indicate the necessity of regular groundwater quality monitoring for a better long-term health management in this region.

ALPHAPROTEOBACTERIAL REVERBERATION ON SOIL PRIMARY MACRONUTRIENTS EXISTENCE AT ANAIMALAI BLOCK OF COIMBATORE DISTRICT, TAMILNADU, INDIA.

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ABSTRACT

The most promising potential of plant growth-promoting rhizobacteria (PGPR) is to control the plant pathogens biologically through numerous hormones production. Despite multiple rhizobacterial presences in the soil, this current investigation deals with the Alphaproteobacteria class of bacteria and its correlation to soil primary macronutrients. This study brings out spatial distribution of existing nutrients as well explores entwine correlation with Alphaproteobacterial communities. Altogether 106 soil samples engaged in primary nutrient analysis and Pearson correlations were derivedto ascertain the nutrients that contribute for the sustainable agricultural practices. Parks nutrient index enhances the study by means of understanding overall nutrient status. Based on available nutrients at known sample sites, the nutrient status of unsample and unassessable location was extrapolated by krigingmodel. Bacterial colonies were isolated from the soil samples of 15 different farm locations based on soil morphological class. PCA analysis made to correlate the heterogeneity of Alphaproteobacterial and soil primary macronutrients. Most of the soil fails in fertility due to poor concentration of available nitrogen. In contrast phosphorous and potassium shows fair concentration. The Kriging model reveals the soil fertility information for entire area in large scale. Each soil sample consist of 650 to 1000 CFU/ml Alphaproteobacteria among them, Rhizobium and Azospirillum genera excessively contribute to soil macronutrients inhibition. This study fulfills the research gap of identifying the existence soil macronutrients and Alphaproteobacteria in the soils of Anaimalai block. Study on intense association of soil macronutrients and bacterial communities induce organic agro practices.

AERODYNAMIC PERFROMANCE STUDY OF V-GROOVE RIBLETS INSPIRED BY SHARK SKIN

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ABSTRACT

The riblets is a special surface, which was inspired by the Mako shark, has superior properties in terms of delaying flow separation and thereby reducing skin friction drag. In order to evaluate the NACA0026 airfoil's flow characteristics and measure its ability to reduce drag, Vgroove riblets were installed on the airfoil at specific spots. For varied angles of attack (AoA) of 30 , 60 , 90 , and 120 for a velocity of 25 m/s, the flow around the riblets and plain airfoils is computed in examine the variations in the flow field through velocity variations, pressure gradients, and turbulent kinetic energy dissipations. Results demonstrate a maximum drag reduction of 6% for 30 (AoA) and a considerable reduction of up to 1.5% for higher angle of attacks, which ensures that flow separation at higher angle of attacks is delayed.

EVALUATING THE ACCELERATION SKILL AND 100MTS SPRINTING PERFORMANCE OF ATHLETES WITH AN NEWLY DESIGNED ELECTRONIC DEVICE – AN ANALYSIS

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ABSTRACT

This is a technological world. In This methodological time, all fields are automated by electronic out fits with extreme specific, which are vital to bring out our determination positively. The present investigator has created an electronic tool to assess the Acceleration and 100mts Sprinting Performance. These are the supreme segments in sprinting event, these segment's performance are the resilience of sprinting event. Acceleration is the vital part in every sprinting event, Presently acceleration and 100mts Sprinting Performance are not assessing in most of sprint event like district, divisional and state level events due to lack of appropriate devices with cost effective. The result of every sprinting event is based on the influence of acceleration proficiency of the athlete.The device will be used for regular sprint training purpose in athletics training laboratories. The device has some essential parts namely 1.Microphone 2.Infrared Transmitters, 3.Infrared Receivers 4.Interfacing Unit and Computer. The outcome of the innovations must have scientific authenticity which is also indispensible at any conditions.To attain the scientific authenticity of the device, 120 subjects were chosen and the appropriate data were collected using the newly designed kit while the subjects were participating in the 100m race. The collected data were evaluated with appropriate statistical procedures and obtained Reliability, Validityand objectivity of the device. Based on international athlete's performance in 100mts sprint, the starting point to 40mts of 100mts sprint phase prevailing as an acceleration phase.

IMPROVING MECHANICAL PROPERTIES OF GLASS FIBER REINFORCED EPOXY COMPOSITES FILLED WITH GRAPHENE AND MAGNESIUM LAYERED-DOUBLE HYDROXIDE

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ABSTRACT

Due to their light weight, toughness and adaptability epoxy polymer composite materials have attracted substantial interest and are used in several engineering and industrial applications. Comprehensive mechanical testing of the composite material is essential to ensuring their performance and dependability. An overview of a thorough investigation into the mechanical characterization of epoxypolymer composite material added with Magnesium layered-double hydroxide (MLDH) and graphene oxide (GO) is provided in this paper. This study examines a variety of mechanical tests, such as tensile, compression, flexural and impact carried out on tailored glass fiber reinforced epoxy (GFREP) polymer composites blended with filler with various loading of 3 to 9 wt.% and of GO maintained at 0.5 wt.%. The study looks into the improvement of tensile strength, modulus and fracture toughness of epoxy polymer composites, among other mechanical characteristics. Additionally, the study investigates the various elements, including fiber content, additives, and filler materials, affect the mechanical behaviour of the developed epoxy composite.

MANUFACTURING OF CONVENTIONAL AND INTERLOCKING CONCRETE BRICKS WITH C&D WASTE AS A REPLACEMENT

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ABSTRACT

As per the survey done in India, around 150 metric tons (35% - 40%) per annum by 2022, of Construction and Demolition Wastes were generated. Construction and demolition (C&D) waste refers to the materials generated during the construction, renovation, demolition, and deconstruction of buildings and infrastructure. The construction and Demolition wastes are categorized into various types such as Cement Concrete structures, burnt clay bricks, cement plastering, aluminium and other metals, plastics, wood, glass, roofing materials, electrical and electronic wastes, etc., the use of construction and demolition waste in the construction has an emerging opportunity of low-cost bricks into practice. This experimental investigation of managing C&D wastes effectively by manufacturing a conventional and interlocking concrete bricks which brings out the solution to the problem of reduction of the C&D wastes,requirement of virgin raw materials and land pollution. The mix of Cement concrete conventional and interlocking bricks are designed with reference of IS 10262: 2019 and IS 456: 2000. The major aim of this investigation is on the Cement, Concrete and C&D wastes. The C&D wastes are crushed and processed initially. With the mix of M15, the coarse aggregate of 10mm is used. The C&D waste about 0%, 5%, 10%, 15%, 20% and 25% in the concrete is partially replaced in Conventional and Interlocking concrete bricks. The Compressive strength, flexural strength and tensile strength test for 7 days, 14 days and 28 days is taken for this investigation. The results are compared with the nominal values of the respective products. The expected results were obtained. For interlocking, modified kind of Tongue and Groove Joint is used. The C&D waste replaced Conventional and Interlocking concrete bricks can be usedin the Load Bearing walls, RCC structures (Non-Load Bearing walls) and in the Retaining walls.

REVISITING LCM AND GCD FROM A PROGRAMMING PERSPECTIVE

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ABSTRACT

Finding LCM and GCD for a given set of positive integers finds wide applications in Engineering, Science, Management and Technology. In this short paper, LCM and GCD are revisited through simple examples and novel methods are proposed from a programming perspective.

SOLAR EVAPORATION FOR DISTILLERY EFFLUENT USING BIOMATERIAL IN SOLAR STILL

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ABSTRACT

The treatment of distillery effluent adds the benefit of reducing the effluent discharge directly into the environment. This study details the production of distillate recovered from the distillery effluent using a solar still. The function of the solar still concerning the tap water and distillery effluent was compared to find the suitability of solar still in an effluent treatment system. The solar still was designed and constructed to study the distillate output with a bed material ie. Coco peat. The experiments were performed in February 2021 using S1 (distillery effluent), S2 (distillery effluent with basin material), and S3(tap water). The productivity and exergy of the three stills were analyzed and compared. The daily exergy efficiency for effluent, effluent with coco peat, and tap water are 20%, 18.5%, and 19.5%respectively. The daily thermal efficiency of the solar still with distillery effluent, distillery effluent with coco peat, and tap water was found to be 54.5%, 58%, and 50.3% respectively. This study provides an input for the utilizing the solar energy and biomaterial for the treatment of the effluent at large scale.

DEVELOPMENT OF PROBIOTIC INFUSED DRINKING YOGHURT AND THEIR QUALITY ATTRIBUTES USING BLUEBERRY FLAVOR TO IMPROVE THE OVERALL GUT HEALTH

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ABSTRACT

The study was carried to develop Probiotic Drinkable Yoghurt by incorporating Blueberry flavor to improve gut microflora and overall health using yoghurt culture L. Bulgaricus and/or Streptococcus Thermophilus, and L. Acidophilous in the proportion of 3 percentage showed better results in overall acceptability with time for incubation 8.5 hours at 107-degree Fahrenheit. The addition of optimized powdered blueberry extract about 8gram was acceptable to starter cultures with enriched phytochemical properties. After preparing yoghurt drink proximate and phytochemical analysis, keeping quality analysis and sensory analysis were done that exhibited a healthy functional beverage.

Keyword: Yoghurt, Probiotic, Blueberry flavor, gastrointestinal health, Phytochemical

BUILDING AUTOMATION SYSTEMS

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ABSTRACT

A building security system is essential for keeping locations secure and people safe. These systems can involve a variety of different components such as security cameras or videos, doorbells, motion detectors, door/window sensors, electronic locks, and panic buttons. Analog and embeddedsolutions help to capture and process data at each node, and our connectivity solutions help these differentcomponents. Communicate with one another, often wirelessly via protocols like Wi-Fi, Bluetooth, signaling. For battery-powered systems, our low power solutions and efficient, low-Iq power regulators help designers to prolong their system's battery life for a more convenient user experience.

ARTIFICIAL INTELLIGENCE WITH RENEWABLE ENERGY BASED INCUBATION AUTONOMOUS SYSTEM

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ABSTRACT

The research aim is mainly focused towards incubator control based on artificial intelligence (AI). The sensor networks are in the backbone of AI system. One of the most important elements in a newborn's survival is the infant's temperature regulation. Mammals have the advantage of being homoeothermic, meaning that they are able to produce heat, enabling constant body temperature to be maintained. However a preterm newborn infant needs special care because some vital organs and/or biochemical/enzyme systems may not have developed sufficiently, or because the growth of the fetus mayhave been disturbed, with the result that the infant is unlikely to survive undamaged without special protection. The development of the proposed system is to control the thermal regulation of incubator automatically. This system also includes uninterrupted power supply unit which is taken from solar energy. The health condition of the infant can be monitored through the smart phone application based on IEEE802.11.

AN INTELLIGENT MANAGEMENT SYSTEM FOR WASTE RESOURCE PROCESSING BASED ON EMBEDDED NETWORK CONTROLLER

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ABSTRACT

A methodology is introduced with oversee waste management schemes in large urban areas adequately without checking the parts everyday's in physically. Here the issue of disordered waste assortment is addressed by planning an ATMEGA340 framework which will screen every dumpster exclusively for the measure of waste kept. Here a computerized framework is accommodated isolating wet and dry waste. A mechanical arrangement can be utilized for isolating wet and dry waste into independent compartments. Sensors can be utilized for isolating wet and dry. In this process, optical sensor detects the object when placed. Based on the moisture content present in the object, moisture sensor will detect the type of waste. The waste is segregated accordingly in to the bins. It leads to reducedquantities of hazardous waste and toxic gases like carbon-di-oxide and methane. It also reduces human efforts. The proposed network presented in this system is accompanied by a conceptual prototype, which has been developed and visualized based on interpretation of the findings of the experiment. So, the prototype can be technically tagged data visualization through IOT. The experimental analysis of the system is verified through PROTEUS simulink model.

EARLY DIAGNOSIS OF ACUTE MYELOID LEUKEMIA USING MACHINE LEARNING ALGORITHMS

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ABSTRACT

The most prevalent kind of leukemia, known as AML, typically affects both adults and children. It has an impact on human WBCs and leads to their aberrant formation. Acute malignancies are brought on by the body's excess of aberrant WBCs. Finding Acute Myeloid Leukemia in the blood smear sample itself is the primary goal of this study. In this study, a blood sample from the patients will be obtained, and using artificial intelligence, a blood smear, component classification, and diagnosis construction will be carried out. Therefore, the manual method used by laboratory technicians to analyze the blood smear will be replaced by this study method.

FOOD ENZYME PRODUCTION FROM DEOILED CAKE BY ASPERGILLUS FOETIDUS AND RHIZOPUS ORZYAE USING SOLID STATE FERMENTATION

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ABSTRACT

The main objective of this research is to determine the effect of deoiled cake substrate concentration and optimization of growth and nutritional parameters for higher α-amylase production by solid state fermentation technique using Aspergillus foetidus and Rhizopus orzyae. Different deoiled cakes such as sesame deoiled cake (SOC), groundnut deoiled cake (GOC), were used as substrate for the α-amylase enzyme production and compared with wheat bran (WB). The substrate concentrations (Individual - 0.5, 1, 1.5 & Mixed – 1:1, 1:2, 1:3), Incubation temperatures (40°, 50° and 60°C), carbon sources (Glucose, Maltose and Lactose), nitrogen sources (Ammonium nitrate, peptone, and sodium nitrate) were the parameters used to produce α-amylase and tested for the higher enzyme production. Among the individual substrates, groundnut deoiled cake was found to be the best producer of the enzyme. From the fermented material, crude enzyme was extracted as supernatant using a centrifuge at 7000 rpm and the supernatant was used for α-amylase enzyme assay. It was found that the maximum amount of enzyme (7.2 U ml^{-1}) was obtained in mixed substrates i.e., combination of wheat bran and groundnut deoiled cake (1:1) having initial moisture of 64 per cent and supplemented with lactose and ammonium nitrate of one per cent each at 30°C for 72 hours using 2 ml spore suspension ($6x10^7$spores ml^{-1}) resulted in higher α-amylase enzyme than the individual substrates. The Rhizopus oryzae inoculated substrates gave the lower yield of α-am

A COMPREHENSIVE EXPLORATION OF ELECTRONIC TATTOOS IN HEALTHCARE

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ABSTRACT

Electronic tattoos (e-tattoos) represent a groundbreaking convergence of flexible electronics and healthcare, holding immense potential for revolutionizing patient monitoring and diagnostics. This paper explores the multifaceted landscape of electronic tattoos in healthcare, investigating their applications, technological underpinnings, and the transformative impact on patient care. These skin-like devices offer unobtrusive and continuous monitoring of vital signs, biomarkers, and other physiological parameters. With wireless connectivity enabling real-time data transmission, electronic tattoos facilitate remote patient monitoring, contributing to timely interventions. Through a comprehensive exploration, this research seeks to illuminate the current state of electronic tattoos in healthcare, offering insights into their potential, challenges, and the promising future they envision for personalized and proactive patient care.

PROOF OF HCG AS A BIOMARKER FOR REPRODUCTIVE CANCER SCREENING

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ABSTRACT

The field of biomaterials is a young one that develops solutions for the challenges associated with disease screening and diagnosis. There are numerous approaches for finding cancer biomarkers. There are multiple biomarkers for distinct cancer kinds. This idea makes use of hCG, or human chorionic gonadotropin, a possible cancer biomarker whose body produces higher amounts of it when a woman is pregnant or has cancer. The creation and design of paper-based biosensors, such as ovulation/pregnancy strips, for the detection of reproductive malignancies including testicular and ovarian cancer, is what makes this screening approach new. Our goal is to validate HCG as a biomarker for the early detection of reproductive cancer.

BETALAINS – pH INDICATOR BIOPOLYMER PATCH IN THE DETECTION OF MEAT SPOILAGE

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ABSTRACT

The primary objective of this work is to extract betalains from the beet stem through direct use it as dyefor indicating the meat spoilage through pH responsive film. This study aims to develop active and intelligent packaging films based on chitosan/agar agar incorporated with betalains- Beet Root (Beta vulgaris) stem extract. The microstructure, physical and functional properties of the films with different contents of the extract (0.25, 0.50 and 1.00 wt% on chitosan) were measured. Results showed betacyanins were the main components in the extract, which presented significant color changes under alkaline conditions. Scanning electron microscopy observation revealed the compactness of the films was improved by the extract addition. Fourier transform infrared spectroscopy revealed that betacyanins in theextract could interact chitosan and agar through hydrogen bonds. The incorporation of the extract enhanced the water vapor barrier and ultraviolet–visible light barrier ability, and mechanical, antioxidant and antimicrobial potential of the films. The film containing 1.00 wt% of the extract was more sensitiveto ammonia than other films. When applied to monitor the freshness of chicken, the film containing 1.00 wt% of the extract presented visible color changes due to the accumulated volatile nitrogen compounds during the spoiling process of chicken. Our results suggest the film containing 1.00 wt% of the extract canbe used as active and intelligent packaging in food industry.

RECOVERY OF VALUABLE METALS FROM E-WASTE USING MICROWAVEHEATING

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ABSTRACT

The global awareness of the electronic waste crisis is widespread due to its increasing use and disposal. Governing bodies of various countries has encouraged researchers to explore innovative alternatives to the conventional methods for the safe recycling, reuse, and proper disposal of electronic solid waste systems. At first, e-waste is crushed and then subjected to microwave heat treatment to extractvaluable metals in the form of a metallic mixture. This mixture is subsequently processed through acid leaching with the addition of hydrogen peroxide to create a leached solution. Atomic absorption spectroscopy (AAS) was employed to find the composition of Cu, Fe, Al, Ni and Co before and after leaching process.

EXPLORING ETHICAL FRONTIERS IN METAVERSE & ENHANCING IT USING CLOUD COMPUTING

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ABSTRACT

A number of ethical issues and challenges have been raised by the introduction and quick development of the metaverse, a virtual reality environment where users can interact and connect with digital worlds and one another. The main ethical challenges in the metaverse are examined in this abstract, including digital identity, privacy, security, inclusion, and the risk of manipulation and abuse. In order to ensure that the metaverse develops into an area that stimulates positive experiences, respects individual rights, and generates a feeling of community and responsibility, it stresses the need for a strongethical framework that addresses these problems. In order to help stakeholders, developers, and policymakers traverse the complicated terrain of the metaverse in an ethically responsible manner, this article digs into these ethical conundrums and offers advice.

AI-POWERED TELEMEDICINE AND REMOTE HEALTH MONITORING

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ABSTRACT

Artificial Intelligence (AI) in conjunction with telemedicine and remote health monitoring is changing the healthcare industry by providing creative answers to persistent problems. An overview of the revolutionary potential of AI-driven telemedicine and remote health monitoring is given in this abstract. Through the use of digital channels, telemedicine enables remote healthcare their delivery, removing geographical restrictions and improving accessibility for patients. On the other hand, constant data gathering from wearables and sensors is a feature of remote health monitoring, which makes it possible to track patients' vital signs and health information in an instant. The promise of AI in telemedicine and remote health monitoring, which cut beyond traditional medical borders, is captured in this abstract. AI is an essential component of a healthier, more prosperous future as the healthcare sector adopts driven by data, patient-centered, and affordable treatment.

REVOLUTION OF PRECISION AGRICULTURE THROUGH IoT INTEGRATION

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ABSTRACT

The fusion of Internet of Things (IoT) technology with automation is driving a transformation in the agricultural environment of today. In this study, a thorough abstraction of a smart farming system is presented, one that makes use of the internet of things (IoT) for real-time data collection and automation for accurate and timely agricultural operations. Increasing agricultural yields through smart farming has a big positive impact. Farmers can put timely interventions in place through precise tracking and decision-making based on data, which will result in the best possible production circumstances. Improved yields are the end consequence, which is crucial for guaranteeing adequate nutrition and the stability of the economy in agricultural areas.

MACHINE LEARNING BASED CHANNEL ESTIMATION IN MIMO COMMUNICATION SYSTEMS

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ABSTRACT

Machine Learning (ML) techniques have recently been applied widely to telecommunication systems and it was demonstrated to be an utstanding tool for dealing with complex non-convex optimization problems. Hybrid precoding (beam-forming) is the most promising approach to reducinghide hardware costs and high power consumption in large-scale millimeter wave (mm-Wave) MIMO systems. Hybrid pre-coding combines large-dimensional analog precoding (or beam-forming) with deep learning techniques for estimating the channel matrix and has been designed multiuser environment. This work is designed for the hybrid precoding scheme with affordable complexity and increased spectral efficiency by enabling deep learning techniques.

PRODUCTION OF NATURAL HEALTH DRINK USING PALMYRA FRUIT

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ABSTRACT

Palmyra fruits are excellent for using in food and beverage production because of their unique physical and chemical characteristics. Water or a fruit pulp extractor is used to manually extract palmyra fruit pulp (PFP), which is a thick, viscous liquid. With so many health advantages, palm fruit juice is a great addition to any diet. Packed full of vital nutrients, including vitamins A, C, and E, dietary fibre, antioxidants, and other nutrients, this juice promotes general health and wellbeing. It helps to prevent oxidative stress, strengthen the immune system, and promote healthy skin. Sodium benzoate was added tostop the juice from spoiling too soon. Palmyra juice's nutritional composition reveals that it posses low glycemic index and characterisation of Palmyra juice indicated that it has high moisture and energy content. FTIR studies highlight the presence of hydroxyl functional group and GC-MS chromatogram provided qualitative report on the different compounds present in palymra fruit juice. The remaining partsof the fruit such as fibre portions can be used for 3D processing and also can be converted to degradable plates and cups, the left-over hard shell can be converted to useful oil.

SYNTHESIS, CHARACTERIZATION AND STATISTICAL ANALYSIS OF A NOVEL POLYESTER FROM JOJOBA OIL

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ABSTRACT

This study aims on the synthesis of a novel polyester from jojoba oil and perform statistical analysis. In comparison to the other vegetable oils, jojoba oil is known to possess high thermal stability with excellent shelf-life. Alcoholysis mechanism was followed for the polyester synthesis and characterization studies like Fourier transform infrared (FT-IR) spectroscopy and gas chromatography- mass spectroscopy (GC-MS) were performed to reveal the properties. The optimized reaction parameters derived from the Box-Behnken design were reaction time 12 h, temperature 90 °C and molar ratio of 1:3. Statistical significance of the reaction conditions and the most fitted model were revealed by the analysis of variance (ANOVA) test. This preliminary study showed the synthesis of polyester from jojoba oil for the first time irrespective of various applications of the oil.

UNTREATED PARADISE SEED OIL AS A SUSTAINABLE ALTERNATIVE FUEL FOR DIESEL ENGINES: PERFORMANCE AND EMISSION ANALYSIS

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ABSTRACT

The influence of raw Paradise seed oil (PSO) is employed in this work to estimate the performance, combustion, and emissions of a four-stroke, single-cylinder, direct injection, water-cooled diesel engine. Diesel, PSO 10 (10% PSO + 90% diesel), PSO20, PSO40, PSO60, and PSO100 (100% PSO) were all used in this investigation. The experiment was conducted at a constant speed of 1500 rpm,a compression ratio of 17.5:1, and four loading circumstances of 0, 1.75, 3.5, and 5 kW. According to the findings, a CI engine could operate satisfactorily on raw oil blends without any engine modifications. Theresults revealed a small reduction in performance and poor combustion on higher blends. According to thefindings, at higher loads, brake thermal efficiency (BTE) fell by 4 - 9% for PSO blends and brake specificenergy consumption (BSEC) increased by 4-9% for PSO blends as compared to diesel. PSO and its diesel blends reduced net heat release rate (NHRR) by 15-48 per cent and cumulative heat release rate (CHRR) by 1.8-15.8 per cent as compared to diesel. PSO blends lowered nitrogen oxide emissions by about 20% when compared to diesel fuel while marginally increasing hydrocarbon emissions.

SOCIAL MEDIA; A GOLD MINE FOR SCAMMERS

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ABSTRACT

Social media scams are seeing a sharp uptick these days. With the rise of technology, scammers have evolved their devious tactics. This research analyses the prevalent social media scams, few factors practiced currently to prevent falling prey to scams and more about the drawbacks of social medias we use nowadays. For this another social media that solves more of these problems which is more user friendly and safe is the aim of this research.

SYNERGIZING ARTIFICIAL INTELLIGENCE AND ENGINEERING FOR SUSTAINABLE SYSTEMS: A PATHWAY TO GLOBAL IMPACT

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ABSTRACT

Amidst the growing environmental crises, the combination of artificial intelligence (AI) and engineering has emerged as a transformative strategy to advance sustainability. This article delves into the intricate connection between AI and engineering, envisioning a future where these two forces converge to develop systems that align with global sustainability objectives. By focusing on real-world applications, ethical considerations, cooperative frameworks, and emerging trends, this article explores the significant potential of the mutually beneficial relationship between AI and engineering. Through a comprehensive examination, this article presents a practical roadmap for harnessing the untapped potential of AI to create groundbreaking solutions with a worldwide impact. In doing so, it highlights the immense potential of these collaborative endeavors in shaping a sustainable future for our planet

DESIGN AND IMPLEMENTATION OF AN E-WASTE SHREDDING SYSTEM

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ABSTRACT

To make recycling or disposing of old electronics easier, there is an equipment called an e-waste shredder. Electronic devices such as computers, mobile phones, and other electronics are shredded using sharp blades or hammers, reducing them to little parts that may be further processed. This abstract gives a brief summary of the reasons why e-waste management is crucial, as well as the role that e-waste shredders play in reducing the amount of electronic debris that is dumped in landfills. Some of the benefits of using e-waste shredders, such as less pollution and preserved natural resources, are highlightedin the abstract as well. The goal of this project is to create a device that can crush and dismantle small electronic gadgets when they have fulfilled their function, such as laptops, cell phones, and tablets. The new shredder device will have a blade profile designed to efficiently shred huge, useless parts of old gear into smaller, more manageable bits of metal and plastic. The goal of this project is to build a working shredder, and an AUTOCAD-based design study in the works to determine the most optimal approach to the critical issue of e-waste recycling.

VIRTUAL REALITY (VR) USING NATURAL USER INTERFACE (NUI) BASED PHYSICAL THERAPY REHABILITATION FRAMEWORK WITH LEAP MOTION CONTROLLER AND MOBILE DECISION SUPPORT SYSTEM (MDSS)

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ABSTRACT

Virtual Reality (VR) Based Physical Therapy Rehabilitation Framework with Leap Motion Controller and Mobile Decision Support System (MDSS) is framework which is useful Post Stroke Upper Limb Rehabilitation in which the Doctor and patient uses Mobile Decision Support System, Doctor prescribes the exercises to patient in MDSS and then the patient does the exercise in Rehabilitation Gamification System. Then the patient updates the status of exercise done to doctor in Mobile Decision Support System, and then according to the performance of patient, doctor updates the exercises in Mobile Decision Support System. Post the Virtual Reality (VR) based Rehabilitation Framework usage; patient should visit Doctor in regular interval of time to check Upper Limb Elbow Flexion (EF), Range of Motion (RoM) - Shoulder Flexion (SF) and Elbow Extension (EE) Angle in degrees.

AERODYNAMIC AND SOUND SUPPRESSION INVESTIGATION ON BIO-INSPIRED SERRATION IMPLEMENTED AIRFOILS INSPIRED BY OWL FEATHERS

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ABSTRACT

The Uniqueness of owl wing anatomy shows the evident association with aerodynamic force production and sound suppression. The phenomenon of the owl's bird to reduce the noise is one of the characteristics of the owl is the Serration on the leading edge of the owl feathers. The characteristics of the serrations are to increase the eddy flow dissipation which in turn this flow of eddy dissipation reduces the sound due to turbulent flow. This serration is placed on NACA 63-412 Aerofoil at its leading edge. Computational analysis is carried out on both normal Aerofoil and Aerofoil with the serration for the angles of attacks 0°, 3°, 6°, 9° & 12° along with that both Aerodynamic and Acoustic analysis are performed. Results show dominant reduction for the range 6 to 19% compared to normal airfoil in sound production on various flow conditions.

COMPARATIVE STUDY OF MECHANICAL PROPERTIES WITH Al/SiCp/Gr AND Al/SiCp/Cu MMCS

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ABSTRACT

In this study, aluminium was used as the base metal and Silicon carbide , copper and graphite powders were employed as reinforcing materials to develop aluminum metal matrix composites. The Al/SiCp/Gr and Al/SiCp/CuMMCs were fabricated by stir casting route. These composites were subsequently machined in accordance with ASTM standards. The study aimed to investigate the microstructure and mechanical properties of SiCp, Cu and Gr Metal Matrix Composites. Notably, the mechanical characteristics exhibited a substantial enhancement compared to both Al/SiCp and the base aluminum metal.

EARLY PREDICTION OF LIVER DISEASE USING WHALE OPTIMIZATION ALGORITHM AND IMPROVED K-NN CLASSIFICATION (WOA-IKNN)

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ABSTRACT

The prevalence of liver disease is among the highest in the world. One of the body's major organs is the liver, sometimes known as the gland. This is because it creates and chews bile. Liver disease is brought on by liver issues. Doctors are supported by a medical diagnostic support system that was developed. By making these systems better, medical diagnostic judgments' can be made with higher quality. A method for extracting the information buried in the data is data mining. They can uncover patterns that are buried in sizable and intricate collections of data, patterns that evade typical statistical methods of analysis. This study's goal is to suggest a categorization model with fundamental decision- making methods to forecast various forms of liver disorders. To get better results the experiment wasdone by combining Whale optimization algorithm combined with improved KNN classification. The results obtained are compared with Logistic Regression, Support Vector Machine, Random Forest and K- NN. The results show that the proposed out performs well in terms of accuracy, precision, recall and F1_score.

AI Integration in Cloud Computing: Advancements, Challenges, and Reliability Measures

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ABSTRACT

The enthusiasm and promotion of related application technologies have played a crucial role infacilitating the smooth progress of AI technology and its related initiatives. As cloud computingtechnology continues to develop, an increasing number of users are leaning towards cloud- based work environments. Nonetheless, the occurrence of numerous cloud service failures hasresulted in substantial losses for both enterprises and individuals. To safeguard the interests ofthese entities, cloud service providers are striving to deliver high-quality services. This paper aims to explore the application of AI technology within the context of cloud computing resources, focusing on reliability indicators. It proposes a method for verifying the reliability of cloud services at the infrastructure-as-a-service layer. Experimental research indicates that the reliability detection method presented in this paper enables users to swiftly and easily assess the reliability of their chosen cloud service. This approach provides an intuitive gauge of whether the performance of each server aligns with the commitments outlinedin the cloud service provider's service level agreement (SLA).

Keywords: Artificial intelligence technology, cloud computing environment, cloud computing resources, IaaS.

INFLUENCE OF MACHINING PROCESS PARAMETERS ON SURFACE ROUGHNESS OF ALUMINIUM METAL MATRIX COMPOSITES (AL - MMCS)

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ABSTRACT

In the current investigation the influence of drilling process parameters such as cutting speed, feed rate and point angle in affecting the surface roughness of Al Metal Matrix Composites (AA7075 –5 wt% SiC) was investigated. Al MMC was synthesized using stir casting technique. Experiments (Drilling process) was carried out using taguchi L9 array. Drilling process parameters were considered as the factors in affecting the response (surface roughness). Process parameters were varied at three levels (Cutting speed – 600,900 & 1200 rpm, feed rate -0.5.0.8 & 1.1 mm/rev and point angle - 90^o,115^o & 140^o). Drill diameter was kept constant at 10 mm. Analysis of Variance (ANOVA) indicated that the cutting speed (98.95%) had largely influenced the surface roughness of the composite. Surface roughness found to decrease with increasing cutting speed

Keywords : Al MMC – SiC- factors – Surface roughness – ANOVA - S/N ratio

CFD SIMULATION OVER A 2-D AXI-SYMMETRIC RE-ENTRY CAPSULE CONFIGURATION

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ABSTRACT

Apart from the blunt-shaped nose, the most recent re-entry vehicles are equipped with ablative Thermal Protection Systems to avoid possible damage of the capsule and to insulate them. In re-entry vehicles, during re-entry phase, the thermal loads play a major part. A re-entry capsule encounters a high temperature and chemically reacting flow during the re-entry phase. Computational Fluid Dynamics is used to simulate the coefficient of pressure, shock location, and the variation of pressure and Mach number over an axi-symmetric re-entry capsule configuration using k-Epsilon turbulence model for Mach numbers 3, 5 and 7.

Keywords: Re-entry, Computational Fluid Dynamics, Hypersonic flow, Mach number, Axi-symmetric

DESIGN AND DEVELOPMENT OF VTOL HYBRID DRONE FOR LAND SURVEY

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ABSTRACT

Apart from the blunt-shaped nose, the most recent re-entry The purpose of this drone is to combine the features of both fixed-wing and multirotor drones. Fixed-wing drones are known for their high speeds and endurance during forward flight, while multirotor drones are capable of taking off and landing vertically, making them ideal for use in areas with limited space for takeoff and landing. By combining these features, the VTOL hybrid land survey drone can be able to take off and land vertically while achieving high speeds and endurance during forward flight. The design process of the drone involved selecting appropriate components for the airframe, propulsion system, and control electronics. The airframe needed to be lightweight yet, with the ability to support the weight of the camera and controlsystem for data collection. The propulsion system is designed to provide required thrust during both vertical takeoff and forward flight. The control electronics includes a flight controller and GPS module to provide accurate positioning and stability during flight. The drone was equipped with a survey-grade camera and control system for data collection. The camera provided high-resolution images, while the controller provides accurate measurements of distances and elevations. The design of the VTOL Hybrid drone was made using CREO software. The fabricated VTOL Hybrid model with the camera module was launched using Mission Planner software and the data have been extracted using

Keywords: VTOL hybrid, survey-grade PIX4D software, PIX4D software, endurance

EXISTENCE AND UNIQUENESS OF INTEGRO DIFFERENTIAL EQUATION WITH GENERALIZED FRACTIONAL DERIVATIVE

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ABSTRACT

In this study, initial value problem for integro-differential equations of arbitrary order isstudied. The fractional order is expressed in terms of the ψ-Hilfer type proportional fractional operator. This research exposes the dynamical behaviour of integro-differential equation with fractional order, such as existence and uniqueness of solutions.

Keywords: Differential equations, Fractional Derivative, Existence.

ENHANCING THE EFFICIENCY OF DYE-SENSITIZED SOLAR CELL USING TERMINALIA CATAPPA FRUIT BASED ON NI-DOPED ZNO AS PHOTOANODE

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ABSTRACT

In this report, the metal oxide semiconductor of undoped and Ni-doped ZnO nanoparticles was prepared by the solvothermal method for fabricate ZnO-based dye-sensitized solar cells as photosensitizers of Terminalia catappa fruit using ethanol as solvent. These prepared metal oxide semiconductor nanoparticles were studied by XRD, FE-SEM, FTIR, UV-Visible and EIS. Electrochemical parameters of open circuit voltage, short circuit current density, and fill factor were calculated using J-V characterization. The effect of Ni doping on the efficiency of ZnO-based DSSC is investigated, which results in enhanced DSSC light harvesting efficiency. This obtained result confirms that the doping of ZnO nanoparticles is a valuable material for increasing the corresponding efficiency ofa solar cell application.

Keywords: Ni-ZnO, Solvothermal, FTO, Doctor blade, Terminalia catappa, Efficiency.

OPTIMUM QUALITY PREDICTION USING BAYESIAN SPECIAL TYPE DOUBLE SAMPLING PLAN

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ABSTRACT

In this study, the Average probability of acceptance of a Bayesian Special Type double sampling plan is calculated using the geometric distribution. Performance measures of the plan are discussed along with its operational characteristic functions. A comparative study is presented and these probabilities are compared with conventional sampling procedures to obtain results of optimal quality.

Keywords: Bayesian Sampling Plan, Special Type Double Sampling Plan, GeometricDistribution.

ELECTRO MAGNETIC INTERFERENCE NOISE MITIGATION TECHNIQUE IN HIGH-SPEED SIGNAL CIRCUITS USING ELECTROMAGNETIC BAND GAP STRUCTURE

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ABSTRACT

Due to the prevalence of electrical circuitry with high-speed communications, it has become necessary to evaluate products using an EMI test set up in recent years. The article's primary objective is to analyze electromagnetic interference and compatibility at various levels, mitigation techniques at different levels and to provide a basic knowledge of software tools in this field. The novel structure of Planar Electromagnetic Band Gap (EBG) is designed, simulated and measured for 0 to 10 GHz frequency sweep for mitigating the EMI noise level in high speed signal circuits and found that there is 50 dB of noise reduction.

Keywords: EMI; EM Simulation tools; printed circuit board (PCB)

AN ANALYSIS OF LUNG CANCER SCREENING AND DIAGNOSIS OF CT IMAGES BY DEEP LEARNING TECHNIQUES

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ABSTRACT

Lung cancer is one of the most prevalent and dangerous illnesses in the world. The likelihood of survival for a patient with lung cancer can only be increased by early detection. Computed tomography (CT) imaging, which offers a thorough image of the lung, is a frequently utilized modality for the detection and diagnosis of lung cancer. Deep learning approaches have been thoroughly investigated to assist in interpreting the CT images for the detection of lung cancer in accordance with the developmentof computer-assisted systems. Therefore, the objective of this review is to present a thorough assessment of the deep learning methods created for lung cancer detection and diagnosis. Additionally, the benefits and drawbacks of the most recent deep learning models will be examined. The investigation that followedshows that deep learning techniques have a significant potential for providing accurate and efficient computer-assisted lung cancer screening and diagnosis utilizing CT scans. A list of potential future studies addressing enhancing the application of deep learning to drive the development of computer- assisted lung cancer diagnosis systems is presented at the conclusion of this paper.

Keywords: lung cancer; deep learning techniques; detection; diagnosis; classification; segmentation

FACIAL EXPRESSION RECOGNITION USING TRANSFER LEARNING DEEP CONVOLUTIONAL NEURAL NETWORKS AND MULTICLASS CLASSIFIER TECHNIQUE

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ABSTRACT

This study aims to identify seven major human emotions, such as contempt, anger, disgust, shock, fear, and happiness, from facial images. The system uses three transfer learning models based on convolutional neural networks: AlexNet, VGG-16, and ResNet50. The system follows a simple strategy that includes face recognition, feature extraction, and classification using facial expression recognition algorithms. The study also suggests a pipeline training program to improve pattern recognition accuracy. The study also compares the performance of three transfer learning models using the SVM (Multiclass Support Vector Machine) classifier. The study proposes a method to extract features from facial expressions in FER feature extraction efficiently suggests the main part of the. Even without a caregiver, the proposed ERF system can help people with disabilities express their needs. The study proposed a facial expression recognition (FER) system that recognizes seven major human emotions from images. The FER framework integrates facial expression recognition algorithms based on three transfer learning models for convolutional neural networks providing a straightforward approach. The study suggests a pipeline training strategy to fine-tune the model to high recognition accuracy gradually. Even when their caregiver is absent, the proposed FER system can assist disabled people in expressing their needs.

Keywords: Convolution Neural Network, Feature Extraction, Facial Expression Recognition, Support Vector Machine Classifier.

DESIGN AND PERFORMANCE ANALYSIS OF RECONFIGURABLE APPROXIMATE CARRY LOOK AHEAD ADDER USING MODIFIED BOOTH MULTIPLIER

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ABSTRACT

Adders are an essential component of the arithmetic and logic unit (ALU), the fundamental component of the central processing unit (CPU) in computers. By computing the carry signal in advance with respect to the input values provided to the adders, the carry look ahead adder is employed in this study to solve the drawback of ripple carry adders. When approximative findings are sufficient for the systems, reconfigurable adders are utilized to process the media signals. For the effective design of any system with low power, area, and high operation speed, approximate adders are used. Using Xilinx ISE design version 12, the precise and approximate operating modes were compared, and the findings showeda speed improvement of between 70 to 75 percent.

Keywords: Approximate computing, Configurability, Fast adders, Exact and Approximate Operating Modes

AREA-DELAY-POWER-EFFICIENT GDI ARCHITECTURE SELECT ADDER TOCARRY

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ABSTRACT

The signal processing system is extremely popular in this day and age. All of the primary circuits in the digital signal processing system are built around the adder, which is the fundamental building block. Today's needs for lowering the delay, space, and power consumption of adder circuits boost the overall efficiency of the system, propelling it to the next stage of technological development. Despite the fact that the Carry Select Adder (CSLA) takes up more space, it is being utilised in place of the ripple carry adder in order to reduce propagation delays. In other models, a Carry Select Adder based on a Binary to Excess-I Converter (BEC) was utilised, which required fewer logic resources than a standard CSLA and was hence more energy efficient.As a result, the delay was not significantly decreased. It is necessary to apply the reduced logic CSLA in order to overcome this challenge. However, by employing the Gate Diffusion Input (GDI) Technique, it is possible to achieve a lower delay than the previously suggested reduced logicCSLA. The suggested technique consumes less power and has a shorter propagation latency than existing techniques. In addition, the number of transistors necessary for the circuit was reduced by implementing this GDI-based CSLA. It is possible to create an efficient adder using this technique, as seen above.

Keywords: Adder; Carry Select; GDI Architecture

AUTOMATED HEALTH NURSING SYSTEMS FOR ELDERLY CARE

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ABSTRACT

People's inherent ability tends to deteriorate as they get older, and their health problems get more complicated and chronic. As people get older, multimorbidity—the simultaneous occurrence of many chronic conditions— becomes more common. Health systems around the world struggle to adapt to the great range of physical and mental abilities of older people and to encourage good trajectories of healthy aging from an early age. The abilities of an older person can change quickly—in some circumstances, over the course of hours. Care systems struggle to adapt rapidly enough to meet a person's changing demands. As a result of the impending lack of healthcare workers qualified to provide for senior citizens, adopting elder-friendly technologies may level the playing field

Keywords: Decision support systems, IoT methods, smart homes, machine learning, artificial intelligence, data mining

AUTOMATIC DISEASE DETECTION OF POWDERY AND DOWNY MILDEW USINGIMAGE RECOGNITION BASED ON CONVOLUTIONAL NEURAL NETWORKS FORIMAGE PROCESSING

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ABSTRACT

Agriculture contributes significantly to the economy and is regarded as the backbone of the economy in developing nations. Maharashtra, Karnataka, Tamil Nadu, and Mizoram are the principal grape-growing states. This study uses digital image processing techniques to locate and classify downy and powdery mildew diseases in grape plants. Using a high resolution digital camera, normal grape leaf photographs as well as images of diseased grape leaves affected by powdery mildew are taken from several grape plants and stored in JPEG format. Utilizing MATLAB, the digital photographs of the grape leaves are analyzed. The RGB components of the grape leaves are separated using the RGB encoding technique.

Keywords: Digital Image, Diseases, Grape Plants, High Resolution, Encoding Technique

SURVEY ON CHANNEL ESTIMAITON AND HYBRID ANALOG-DIGITAL BEAMFORMING USING VARIOUS TECHNIQUES IN MIMO SYSTEMS

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ABSTRACT

Multiple Input Multiple Output (MIMO) is an Antenna Technology for wireless communications in which multiple antennas are used at both source (Transmitter) and the destination (Receiver). The antennas are used at each end of communication circuit are combined to minimize errors ,optimize data speed and improve the capacity of radio transmissions by enabling data to travel many signal paths at same time. Multiple Input Multiple Output (MIMO) technology is used for Wireless-Fidelity (Wi-Fi) networks and cellular fourth –generation (4G), Long Term Evolution (LTE) and fifth-generation technology, broadcast Television production and government and can be used in Wireless Local Area Networks (WLAN). Massive MIMO is a multi-user Multiple Input Multiple Output technology hat can provide uniformly good service to wireless terminals in high-mobility environments. Hybrid beamforming architecture provides excellent trade-off between the system performance and the complexity for the massive MIMO system. Achieving high channel estimation accuracy and with minimalhardware cost as well as less power dissipation constitute a substantial challenges in the design of massiveMIMO systems. Previous methods are not ensured better energy efficient beamforming and channel estimation accuracy over the MIMO systems. To overcome the above mentioned issues the existing methods are analyzed for various techniques of Hybrid Analog Digital beamforming and channel estimation. In this work, channel estimation in MIMO systems, energy efficient analog-to-digital converters (ADC) and Hybrid Analog Digital beamforming beamforming using existing methods are performed to improve the MIMO performance significantly. This survey is also analyzed the implementation, advantages and shortcomings of each method applied to MIMO systems. The comparative analysis is done using various techniques like Deep Learning partially connected and fully connected HAD beamformers. (DL),One-Stream-Per-Subarray (OSPS) architecture, Digital PreDistortion (DPD) and adaptive Resolution Analog-to-Digital Converters (RADC).The survey analysis shows that the RADC approach provides better performance in terms of lower energy consumption, Normalized Mean Square Error (NMSE) rate and higher sum rate, spectral efficiency rather than the othermethods

Keywords: Massive MIMO systems, channel estimation, energy efficient ADC, HAD beamforming

ULTRA-DENSE HETEROGENEOUS NETWORKS (UD HETNETS) FOR NEXTGENERATION MOBILE NETWORKS

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ABSTRACT

The Next Generation of Mobile communication will be formally released very soon, with several characteristics than fourth-generation communication. Between 2027 and 2030, a revolutionary wireless transmission paradigm, the 6G network, with full artificial intelligence integration, is projected to be implemented. Faster ultimate bearing ability, higher bandwidth speed, reduced dormancy, and enhanced Quality of Service(QoS) compared to 5G systems are among some of the key challenges that need to be resolved throughout 5G. This makes to discuss the variations of 6G data transmission and its system architectures in this article. Here's a thorough look at the 6G network's specifications, including the wireless medium and various technologies are described. More specifically, this series emphasis the different features of the planned 6G networks' using Ultra-dense Heterogeneous Networks (UD HetNets) scenarios and implementations. This article per the authors, go through the 5G/6G network's key performance indicators (KPI), difficulties, and research directions possibilities in this area.

Keywords: Fifth Generation, Heterogeneous Networks, Internet of Things, Key Performance Indicators, Network Specifications, System Architecture

DUAL-BAND MICROSTRIP RADIATING STRUCTURE FOR WLAN, BLUETOOTH,AND ULTRA-WIDEBAND APPLICATIONS

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ABSTRACT

This research paper presents a novel dual-band microstrip radiating structure designed to efficiently operate within the WLAN Bluetooth band (2.4 GHz to 2.85 GHz) and the ultra-wideband (UWB) spectrum (4.8 GHz to 12.70 GHz). Leveraging a modified configuration derived from a UWB microstrip antenna, the proposed design exhibits distinctive capabilities for multi-frequency utilization. The antenna's radiation pattern displays characteristics of quasi/partial omni-directionality, offering enhanced coverage. Notably, the antenna achieves a peak gain of 5.23 dB, demonstrating its potential for effective signal propagation. Beyond WBAN, the proposed antenna exhibits potential deployment in wireless routers, RFID tags, GPS trackers, and ambient RF energy harvesting systems across the ISM frequency bands. By bridging the gap between the WLAN Bluetooth band and the UWB spectrum, the proposed dual-band microstrip radiating structure showcases its potential to address the growing demand for compact and versatile wireless communication solutions across a diverse range of modern applications. The research findings pave the way for enhanced wireless connectivity and signal propagation within various technological domains, fostering innovation and progress in the field of communication engineering.

Keywords: Microstrip; Bluetooth; UWB; WBAN; Omni- directional

IRIS SCANNER BASED COMPUTATIONAL METHODOLOGY FOR SMART ATM SYSTEMS

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ABSTRACT

Iris recognition is a robotic biometric identification system that uses fine pattern-recognition techniques on videotape images of either one or both of a person's iris, which have complex patterns that are distinct, stable, and visible up close. A biometric system automatically recognizes an entity based on some sort of distinctive point or attribute maintained by the entity. The security system plays a significant role in everyday living. Iris recognition is emerging as one of the key types of biometrics-based identifying systems as security systems mature. Biometric systems have substantially improved individualidentification and authentication, contributing significantly to national, international, and especially public security. The advantages of iris recognition systems over conventional biometric systems are explained in this design, along with the security measures utilized by ATMs. In this design, MATLAB software is utilized for iris detection, and Arduino UNO is used to interact with the laptop and mobile device.

Keywords: Biometrics, Iris, ATM, Arduino, MATLAB

SMART IOT AND BLOCKCHAIN ENABLED COUPLED SECURITY MECHANISMFOR VOTING SYSTEMS TO PREVENT DATA TAMPERING

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ABSTRACT

In this paper brief the claimed benefits of e-voting initiatives, wider adoption of e-voting mechanisms and implementation processes is slower than expected. Several technical, social, and cultural challenges hinder venerability and applicability of e-voting system. Amongst them, the evaluation and harmonization of e-voting systems, given different legal and statutory frameworks, is still an important challenge to overcome. Only a few works have addressed this topic in the field of e-voting. This proposed successfully developed a block chain-based network security mechanism for voting systems we have also employed bilinear pairing in establishing the network security mechanism; bilinear pairing has the advantage of low encryption and decryption data volume, which reduces volume of stored data in nodes. Additionally, added mechanisms such as ballot counting and ranking to our scheme and improve the speed of vote counting and complement electronic voting systems.

Keywords: Block Chain, Node MCU, Web Server, IoT, e-Voting.

A PIPELINE DETECTION SYSTEMS AND DATA FUSION RESEARCH

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ABSTRACT

Pipeline systems are indispensable for transporting various fluids, but leaks pose significant risks such as environmental damage and financial losses. This survey provides a comprehensive overview of pipeline leak detection systems and the role of data fusion in enhancing their accuracy. The survey categorizes leak detection into single-sensor, multiple-sensor, and external monitoring systems, detailing their principles and evolution towards advanced AI approaches for improved sensitivity and reduced false alarms. Data fusion has emerged as a critical component in pipeline leak detection. The survey explores fusion methods such as sensor-level, feature-level, and decision-level fusion, highlighting the advantages of integrating data from sources like pressure, temperature, and flow rate, while addressing challenges like data compatibility.

Keywords: pipeline, leak detection, data fusion, sensor- based systems, AI approaches, accuracy, environmental damage, safety, communication systems, predictive modeling, proactive maintenance, fluid transportation.

AUTONOMOUS VEHICLES AND AI: ADVANCEMENTS AND CHALLENGES

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ABSTRACT

The integration of autonomous vehicles and artificial intelligence (AI) ushers in a new transportation era, with remarkable advancements and intricate challenges. This paper explores their dynamic relationship, highlighting progress and obstacles. Rapid AI strides drive autonomous vehicle advancements, enabling environment perception, data processing, and informed decisions. Enhanced safety, efficiency, and urban planning emerge from this synergy. Benefits include reduced human errors, optimized traffic flow, and transformed urban spaces. Yet, challenges persist, such as refining AI for complex scenarios, cyber security, ethics, and regulation. The paper provides insightful analysis of achievements and hurdles, emphasizing the interplay between advancements and challenges. This understanding is crucial as society embraces AI-powered autonomous vehicles reshaping mobility.

Keywords: intricate challenges; autonomous vehicle advancements; AI-powered autonomous vehicles; environment perception; data processing; informed decisions

MOBILE APPLICATION SYSTEM FOR ROAD ASSISTANCE

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ABSTRACT

A mobile application is designed to help drivers in informing their insurance providers when having car breakdown issue. This enable driver to have a reliable and transparent medium in getting assistance from the insurance provider. The driver is able to use the system easily and instantly as this mobile application requires a few steps in order to use it. Once the driver uses Road Assist in informing their insurance provider, the insurance provider will receive an alert upon their system. Furthermore,Road Assist is implementing Artificial Intelligence (AI) in deploying chat bot. Chat bot is used to ease thedrivers in getting help from the insurance provider.This research paper consists of several aspects that are important in developing the proposed project during the implementation phase. The aspects are introduction to the study which related to the background information of the proposed project, literature review regarding the domain research, research methods that have done in gathering the data, requirementvalidation of the data that has been gained during research methods, and conclusion about this research.

Keywords: Mobile application, insurance provider, car breakdown, transparent communication, Road Assist, artificial intelligence, chatbot, user experience.

EFFICIENT SERVICE PROVISION – A CASE STUDY OF BLEST

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ABSTRACT
In the modern digital era, mobile applications have revolutionized the way services are accessed and provided. This paper presents a case study of BLEST, a novel service-providing app that seamlessly connects service seekers with service providers. The app's design and functionality offer a comprehensive solution to address challenges associated with traditional service delivery systems.

Keywords: Mobile application, Service Marketplace, Service Providers

A SURVEY ON ROUTING PROTOCOLS AND IOT IN WIRELESS SENSORNETWORKS

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ABSTRACT
A wireless sensor network (WSN) is a network, which is formed using a larger number of sensor nodes and each sensor node is equipped with a sensor that detects physical measurements such as light, heat, pressure, etc. A WSN is described generally as a network of nodes that sense and controls the environment cooperatively, enables better interaction between the nodes and end users and the surrounding environment. WSNs are regarded as a revolutionary information gathering method to build the information and communication system which will greatly improve the reliability and efficiency of infrastructure systems. As the sensor technology is advancing, the WSN systems becomes a key technology for Internet of Technology. Since, IoT has no specific communication technology, WSN will play a major role in IoT to communication packets from source to internet. Integration of WSN objects into IoT will be a major evolution of WSNs. In certain literatures, the functionality of IoT is not defined well. The main drawbacks associated with WSN IoT is its limited energy resources, since the nodes are battery powered and adding energy to such sensor nodes is difficult in rugged environments, which makes energy management an important task for WSN IoT. Aiming at a higher energy efficiency for the WSN assisted IoT, we propose an energy resources management system in WSN assisted IoT. An energy efficient clustering algorithm will be proposed based on position of nodes and residual energy and distance from cluster head. The clustering algorithm will be proposed with compressive sensing method, which is used for reducing the overhead of messages being transmitted.

Keywords: WSN-IoT, Energy efficiency, compressive sensing

NEXTJS-POWERED WEB APPLICATION: A SOCIAL MEDIA EXPERIENCE

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ABSTRACT

This paper delves deeply into the intricate design, meticulous development, and successful implementation of an advanced social media web application. Powered by the Next.js framework, this project is a direct response to the intricate web of contemporary social interactions in our digital era. The demand for platforms that can swiftly adapt to the dynamism of these interactions is more pressing than ever before. In this context, the emergence of Next.js, a highly versatile and remarkably efficient React framework, stands as a promising pathway to engineer web applications that effortlessly harmonize user engagement with cutting-edge technological innovation.

Keywords: Intricate Design, Next.Js

VOLUME CONTROL USING HAND GESTURE

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ABSTRACT

One of the major difficulties that older and disabled individuals encounter in today's digitized society is computer interaction. One of the most advanced technologies in recent years is hand gesture recognition.In software development, natural human-machine interactions are especially important for enabling flexible and amiable human-computer interaction. In order to create a real-time volume control hand gesture on a Raspberry Pi equipped with a camera and Python software using the OpenCV library, this post provided a system architecture and software configuration.The primary objective of the hand gesture recognition system is to establish communication between people and computers so that volume may be controlled. The experimental findings show that the hand gesture recognition system is effective at managing volume.For any user, the system is able to operate in real time.The descriptions of hand motions are then predicted using a rule classifier.The tests on the dataset of 1300 photos demonstrate the effectiveness and efficiency of our technology. Furthermore, when applied to a different set of hand gesture data, our method outperforms a state-of-the-art method.

Keywords: Touchless control,Hand movement tracking,Audio system control, Human-computer interaction

PREDICTION OF DEATH CAUSES BY SWARM INTELLIGENCE AND SUPPORTVECTOR MACHINE (SVM) FROM THE X-RAY IMAGES

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ABSTRACT

The identification of the type of death may be very difficult when the case has been in court for a long time to resolve the mystery of death. The only way to predict death is by examining the features of the images from the chest x-rays. This paper proposes an interesting approach to automate the analysis of chest X-ray images for predictive purposes. Utilization of principal component analysis (PCA) and kernelprincipal component analysis (KPCA) to extract essential features from chest X-ray images provides clearer insights. Furthermore, integrate support vector machines (SVM) with particle swarm optimization (PSO) to extract distinct characteristics from the images and predict the cause of death relating to the detected anomalies.

Keywords: feature extraction, particle swarm optimization (PSO), support vector machines (SVM).

ENHANCING REAL-TIME LANE DETECTION FOR AUTONOMOUS VEHICLESUSING OPENCV AND DEEP LEARNING

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ABSTRACT

Lane detection is a crucial task for autonomous vehicles, as it enables them to safely navigate the road. Traditional lane identification techniques can be computationally expensive and challenging to adapt to various road and lighting circumstances. Recently, it has been demonstrated that deep learning techniques work well for lane recognition because they can be trained to extract features from images thatare resilient to these difficulties. In this paper, we propose a lane detecting system that combines deep learning with OpenCV. Our method first extracts lane line candidates from the image using HLS thresholding and Canny edge thresholding approaches. The image is then warped to a bird's eye view using the perspective transformation technique, making it simpler to see lane lines. The distorted image is searched for lane lines using the sliding window method. Finally, the lane lines are fitted using second- degree polynomials. This method was evaluated, and the outcomes of the experiments demonstrate that it can accurately detect lane lines in real time, even in difficult and quickness of the suggested system met the needs of real-time applications.

Keywords: Lane Detection, Autonomous Vehicles, OpenCV, Deep Learning, HLS thresholding, Canny edge thresholding, Computer Vision

A REVIEW ON CLOUD COMPUTING SECURITY USING MACHINE LEARNING

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ABSTRACT

Scalable, measurable, and on-demand services are offered to end users using the "cloud computing" computer paradigm. Modern enterprises heavily rely on computer technology for a variety of reasons, including cost savings, infrastructure, development platforms, data processing, data analytics, etc. The services that the cloud service offers end users can use providers (CSP) whenever they choose. The cloud infrastructure's security must be top priority. Furthermore several technologically based research projects are used to give a better and more precise defense system to prevent cloud assaults. Recent studies have revealed that machine learning technology is more efficient at safeguarding the cloudenvironment. In contrast to previous technologies, machine learning algorithms are trained on a variety of real-world datasets to create models that can automate the process of identifying cloud assaults. Thisstudy examines some of the most recent studies that have used machine learning as a defense againstcloud threats.

Keywords: Cloud Computing, Machine Learning, Intrusion Detection System, Datasets, Supervised Machine Learning, Unsupervised Machine Learning, Reinforcement Learning, Deep Neural Network.

A SURVEY ON DEEP LEARNING-BASED METHODS FOR MEDICAL IMAGEANALYSIS: ADVANTAGES, CHALLENGES, FUTURE SCOPE

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ABSTRACT

Deep Learning-based approaches in the field of medical imaging have not yet been widely used clinically, in part because of their poor generalization capabilities across various imaging devices and acquisition techniques. Deep convolutional networks are currently widely employed in studies on the processing of medical images. To extract information from the images fed to the Deep Learning Network, multiple models are used. Deep Learning is currently utilized in the medical industry to identify diseases, as well as to diagnose them and classify them into various illness categories. The Convolutional Neural Network (CNN) is the model that is most frequently employed for medical image analysis. This review paper focuses on how deep learning employs deep networks to detect disease by recovering or extracting data from the images presented to the network, as well as providing details on the practical usage of deep learning in the medical domains and its limits.

Keywords: Deep learning, Medical image, Convolutional Neural Network

A SYSTEMATIC REVIEW ON DEEP LEARNING TECHNIQUES FOR LEAFDISEASE DETECTION IN AGRICULTURAL FIELDS

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ABSTRACT

Agriculture plays an important role in Indian economy over 70% of rural householders depends on agriculture. In Indian economy agriculture contributes 17% to the Gross Domestic Product (GDP) and provides 58% of Employment for the population. Leaves are central to a plant's function and survival. Fundamental to all ecosystems, they act as a plant's food source, enabling it to absorb sunlight, make sugars, and carry water and nutrients through their veins. The leaf diseases affect the growth of plants andreduce the productivity yields. In this literature survey, the researchers collected the dataset from Plantvillage, Kaggle website, use digital camera to take images (Village fields) and Internet. The author proposed K-means clustering algorithm for segmentation and GLCM for feature extraction. The authors proposed different deep algorithms for classify the given image. Convolution Neural Network pretrained models InceptionResNet V2, DenseNet-121, DenseNet-169 and VGG-16 proposed to classify the image. In this paper, various techniques are reviewed for plant leaf disease detection in the earlier stage and discussed in terms of various parameters.

Keywords: Leaf disease, Feature extraction, Classifier, CNN, GLCM, LVQ

DEVELOPMENT OF ANDROID SOFTWARE FOR BLUETOOTH BASED CONTROL AND 3DMODELING OF A 4WD MOBILE ROBOT

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ABSTRACT

Significant changes in the present innovation have prompted the difference in many apparat uses and machines we use in our day today routines. PDAs, which have gained incredible headway particularly somewhat recently, perform many under taking other than relational correspondence. The control of robots with expanded utilization in day-by-day life and broadly utilized in the writings, one of these undertakings. In this review, a4-wheeldrive (4WD) versatile robot are demonstrated in 3D and an Androidprogramming are created to perform Bluetooth-based controller of these and comparable robots. The demonstrated robot with Sketch Up drawing program is planned evenly. It is additionally measured so that it can move outside of level floors, for example, lab conditions. Android applications used to control robots in the writing are all things considered downloaded as instant or intended to be controlled at a steady speed with the directional keys. The created application permits the PWM worth to be changed so the robot can move at various velocities. It additionally gives data of robot speed determined by the wheelsweep and greatest rpm esteemth at the client will enter on the application screen. The application transferred to the cellphone are tried with the Arduino microcontroller and it has been shown that therobot control can be performed effectively.

Keywords: Arduino, Sketch up, Mobile robot, Android, MIT app inventor.

COMPOSITE MATERIAL FOR THE DESIRED AEROELASTICITY

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ABSTRACT

The versatile nature of composites attracted the researchers to develop these materials for several critical structural applications which among some are mostly subjected to aeroelastic effect. As a result, a large number of research papers and literatures are being concentrated on the composite materials, its production process and on tailoring of aeroelasticty. But only very few literatures are found on the topic which is interlinking the composite material and its production process and aeroelasticity. An attempt is made in this paper on E-GFRP along with epoxy and polyester resin, manufactured by hand lay-up to get the desired aeroelastic effect.

Keywords: Glass fibre, CSM, WRM, Hand lay-up and Aeroelasticity

FORECASTING OF EMPLOYEE PROMOTIONS USING MACHINE LEARNING MODELS

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ABSTRACT

The development and management of a company's talent pool heavily depend on employee advancements. The examination and prediction of employee promotions using machine learning approaches is the focus of this study. Predictive models are built to identify trends and patterns that contribute to successful promotion outcomes by using historical promotion records, performance indicators, skill proficiencies, tenure, and other relevant variables. The suggested approach entails preparing and improving personnel data before applying a varietyof machine learning algorithms. These models are trained and evaluated to determine the predicted accuracy of each method. The goal of this study is to provide decision-makers and HR specialists with theresources necessary to create data-driven estimates concerning employee promotions, ultimately improving workforce planning and talent development initiatives. The information gained from this study has the potential to improve understanding of the forces that drive promotions within organizations. Additionally, the created models may help in identifying workers who exhibit qualities consistent with successful promotion prospects, facilitating better informed and effective decision-making in the field of human resource management.

Keywords: Predictive promotion modeling, Talent advancement analytics, Data-driven career progression, HR decision support systems, Promotion outcome forecasting

ENHANCED POWER QUALITY IMPROVEMENT OF SHIPBOARD POWER SYSTEMUSING POWER ELECTRONICS TECHNOLOGY

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ABSTRACT

In recent days, Power quality issues are the major problems faced by the electricity providers due to the consumptions of heavy pulsed or non-linear loads in commercial and industrial sectors. Semiconductor-based electronic appliances play a crucial part in power quality disruptions in the Shipboard Power System (SPS), which use massive amounts of current in a short period of time and eventually cause a blackout of the ship. A series passive filter and a Switched Capacitor–Thyristor Controlled Reactor (SC–TCR) are used to link a Hybrid Active Power Filter (HAPF) to the switchboard, and this study contributes a combination architecture for eliminating the drawbacks of an SPS. Model Predictive Control (MPC) and Synchronous Phase Modifier Technique (SPM) underpin the HAPF's capacity to predict and mitigate voltage harmonics in a network, while the SC-TCR serves as both a low- pass filter and reactive power compensation to reduce voltage distortion and improve system reliability. Modeling and controlling one's suggested topology are detailed. The proposed system design analysis has MATLAB Simulink model.

Keywords: Harmonics, Shipboard Power Systems (SPS), Switched Capacitor- Thyristor Controlled Reactor, Hybrid Active Power Filter (HAPF), Model Predictive Control (MPC)

PERFORMANCE ANALYSIS, THERMAL AND SURFACE MORPHOLOGIES OF ICENGINE PISTON COATED WITH AL2O3, TIO2 AND ZRO2

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ABSTRACT

The surface of the piston in the engine is coated with ceramic powders, such as Alumina, Titania, and Zirconia, using a plasma spray technique. The behavior of these coated surfaces is then investigated. The thermal characteristics of a friction-exposed surface-coated piston are examined in this study. An analysis of both the pistons with and without a coating was conducted using ANSYS. During our investigation, we discovered that coated specimens had enhanced mechanical and thermal properties, which contributed to better performance in diesel engines. The final result reveals the structural and thermal distribution of both coated and uncoated pistons.

Keywords: Alumina (Al2O3),Titania (TiO2),Zirconia(ZrO2), Surface Coating.

EYES ON THE FUTURE: EXPLORING INNOVATIONS AND APPLICATIONS OFEYE MOUSE CONTROLLERS

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ABSTRACT

In the rapidly evolving landscape of human- computer interaction, eye mouse controllers have emerged as a groundbreaking technology, offering unparalleled potential for accessibility and interaction. This paper presents an in- depth exploration of the latest innovations and diverse applications of eye mouse controllers. By harnessing the power of gaze-driven interactions, individuals with a range of physical abilities can seamlessly navigate digital interfaces, opening new avenues for communication, productivity, and creative expression.

Keywords: Eye mouse controllers, gaze-driven interactions, accessibility, user experience, innovation, human computer interaction, eye tracking techniques, applications, inclusivity, technology integration, communication paradigms, navigation, differently-abled individuals.

SURFACE CHARACTERISTICS ON EFFECTS OF POST OXIDIZING AFTER SALTBATH NITRO CARBURIZED GRADE 5 TI-6AL-4V AND AISI 316L SS

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ABSTRACT

Among the bio metals used, Ti-6Al-4V and AISI 316L Stainless steel are the optimum choices of bio implants, where Ti-6Al-4V have a high strength to weight ratio and AISI 316L SS having good corrosion resistance and good biocompatibility. Still there are certain shortfalls are encountered like poor tribological properties because of its low wear resistance. Wear resistance and corrosion resistance are themost important properties required for bio implants because these implants will tends to cyclic loads and contact with bio fluids. This work attempts to improve the wear resistance by increasing the surface hardness of these materials. In this process, hardness has been improved by salt bath nitro carburizing treatment at the temperature of 560℃ for the duration of 1-3 hours. The comparisons of virgin material micro hardness value of Ti-6Al-4V and AISI 316L SS have also done. The main aim of this study is to find the effect of post oxidation on surface hardness of nitro carburized samples of Ti-6Al-4V and AISI 316L SS. The comparisons of the micro hardness value of Ti-6Al-4V and AISI 316L SS prior and after the post oxidization have been done. The post oxidizing after salt bath nitro carburizing greatly enhances the wear resistance. From observation, it was found that Nitro carburizing increases the hardness of Ti- 6Al-4V and AISI 316L SS whereas post oxidation increases the hardness of AISI 316L SS but reduces the hardness of Ti-6Al-4V. Hence, this study will give light to locate suitability of this process on these materials and its applications.

Keywords: TI-6Al-4V, AISI-316L-SS, Salt bath Nitriding, Nitro carburizing, Hardness

AUTOMATIC SYSTEM FOR WATER QUALITY MONITORING IN TIRUCHIRAPPALLI WATER RESERVOIRS IN TAMILNADU STATE, INDIA.

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ABSTRACT

This Water quality monitoring is crucial for assessing various parameters like temperature, conductivity, salinity, pH, among others, to determine water suitability and minimize waste. Human-crewed marine vehicles are primarily employed for data collection in reservoirs, lakes, and coastal areas. Sustained monitoring of water quality plays a critical role in upholding acceptable levels of water quality for human consumption and other purposes. An IoT-based automatic water monitoring system can help detect water pollution early, ensuring the safety of the water supply by maintaining acceptable water quality levels. The primary goal of this endeavour is to mitigate water scarcity and minimize water waste. An electronic device gathers data every minute, which is then transmitted to the IoWT (Internet of Water Things) system on an hourly basis. The proposed system was deployed across various water reservoirs in Tiruchirappalli city, Tamil Nadu state, India, and the results demonstrate its superior efficiency compared to conventional methods.

Keywords: Water quality, IoT,Monitoring, Environment

A STUDY ON PRODUCTION OF BIOBUTANOL FROM FRUIT PEEL – OVERVIEWOF OPTIMIZATION USING AI TOOLS

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ABSTRACT

The present study deals with the butanol production from waste fruit peels such as banana and pomegranate (waste from wealth) which consists of high amount of carbohydrate source. Both banana and pomegranate peels are very cheap resource and readily available. In the present work, the waste fruit peels of banana and pomegranate are used to produce biobutanol in addition to solve the problem of disposal of waste from juice industries. Biobutanol is a biofuel which is merged with gasoline in fixed proportion and used as substitute to fuel like diesel and petrol. Maximum of 20 % biobutanol can be blended with gasoline to be used as alternative fuel source in same carbonator engine.Fermentation of carbohydrates is mainly done by adding the inoculum Sacchromyces cerevisae from the grown culture into the acid hydrolyzed liquor. During fermentation the amount of butanol produced and reducing sugar content were estimated using potassium dichromate assay and DNS (di nitro salicylic acid) assay. To elevate this process's efficiency, a synergistic blend of Artificial Neural Networks (ANN) and Particle Swarm Optimization (PSO) is proposed, signifying a harmonious amalgamation of innovative technologies in pursuit of a greener energy future.

Keywords: Sacchromyces cerevisae, biobutanol, acid hydrolysis, fermentation, ANN, PSO.

A LITERATURE REVIEW ON FOREST FIRE DETECTION USING IOT ANDARTIFICIAL INTELLIGENCE

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ABSTRACT

A forest is a region of terrain where trees predominate. The biggest terrestrial ecosystem on Earth, forests are present all throughout the world. Forest can purify the air and water, provide food and home for animals and finally protect the environment from the natural disaster. One of the most frequent types of natural disaster is bushfire. Bush fire destroy the forest and it leads to deforestation phenomenon.Other bush fire occurs due to human errors in the wildlife environment. Dry vegetation also cause a rapid ignition in the forest and spread quickly. It is very difficult to control the bush fire by an experienced firefighters. Human health can be affected by smoke and air pollution and leads to various lung diseases. Bush fire are very difficult to identify at time in the forest. Hence more accurate warning systems are needed to detect the bush fire and prevent them. These systems are implemented with IoT (Internet of Things) and Artificial Intelligence (AI). In this paper, we emphasis on this direction of research and we examine literature review utilizing IoT and AI to detect bush fire and their spread through comprehensive evaluation and comparison of previous works.

Keywords: bushfire, Internet of Things, Artificial Intelligence, vegetation, firefighters .

AI-GUIDED DISCOVERY OF ANTIDIABETIC LEAD COMPOUNDS FROMTERMINALIYA CHEBULA

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ABSTRACT

Artificial Intelligence (AI) has revolutionized drug discovery by expediting the identification of potential therapeutic agents. In the realm of antidiabetic research, the utilization of AI-based docking techniques in conjunction with Terminaliya chebula-derived compounds offers a promising avenue for accelerating the drug discovery process. Docking, a computational method, simulates the interaction between ligands and protein targets to predict binding affinities and modes. This paper outlines the integration of AI-driven docking in antidiabetic studies from Terminaliya chebula. The process commences with data acquisition of Terminaliya chebula compounds with potential antidiabetic properties and relevant protein targets involved in diabetes pathways. AI tools are employed to predict 3Dstructures of plant compounds, thereby facilitating the virtual screening process. Subsequent docking simulations unravel the binding interactions between ligands and receptor proteins, with AI algorithms aiding in the scoring and analysis of binding poses. The results guide the selection of compounds for experimental validation.

Experimental validation entails biochemical assays to confirm binding affinity and functional impact. The synergy between AI predictions and experimental outcomes refines theselection of lead compounds, which can then undergo further optimization for enhanced drug-like properties. This iterative process showcases the potential of AI-driven docking in streamlining the identification of potential antidiabetic compounds from Terminaliya chebula. By amalgamating AI's computational prowess with experimental rigor, this approach not only expedites the discovery of antidiabetic candidates but also holds promise for applications across other therapeutic areas. As AI technologies continue to evolve, their role in drug discovery is poised to reshape the landscape of pharmaceutical research and development.

Keywords: Artificial Intelligence; Docking, Antidiabetic; Plant Sources; Drug Discovery; Computational Methods; Binding Affinity; Protein Targets; Virtual Screening; Ligand-Receptor Interactions; Experimental Validation; Lead Optimization; Therapeutic Agents; Pharmaceutical Research

AI-ENHANCED MOTION DETECTION FOR COMPREHENSIVE HOME SECURITY

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ABSTRACT

This paper delves into the amalgamation of AI techniques with motion detection mechanisms. Home security embracing artificial intelligence (AI) to bolster its efficiency and accuracy. The AI-based motion detector utilizes a combination of sensor inputs, including passive infrared (PIR), microwave, or even visual data from cameras to accurately detect unauthorized movement within a residence. The system's primary objective is to detect intruders in real-time, accurately assess the threat level, and promptly notify local law enforcement authorities when an unauthorized entry is detected. Upon detectinga threat, the system autonomously captures high-resolution video footage and, in real-time, transmits this data to local law enforcement authorities, ensuring prompt and informed responses. By integrating AI, it can also adapt and learn from continuous environmental feedback. By utilizing advanced AI algorithms, the system aims to minimize false alarms while ensuring rapid response to genuine security breaches. To mitigate false alarms triggered by pets or environmental factors, the system employs sophisticated algorithms that analyze the size, shape, and behavior of detected objects. The insights from this paper are anticipated to guide the development of future AI-powered security solutions, driving a new era of safer, smarter residential space.

Keywords: Home security, Artificial Intelligence, Including Passive Infrared (PIR), Microwave

AL-BASED APPROACH FOR IOT INTEGRATED PROGRAMMED SOLAR POWERHUMORLESS GRASSLAND MOWER

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ABSTRACT

An Artificial Intelligence (AI) integrated with Internet of Things(IoT) Technology in automating everyday tasks has become increasingly popular in recent years. This paper proposed the development of an innovative AI-based approach for IoT integrated programmed solar power humorless grassland mowers. Manual lawn mowing requires labour and uses the nonrenewable resources which pollute the environment. In response to these challenges we present a solution that leverages advanced technologiesto transform grassland upkeep. The mower is equipped with various IoT sensors, such as ultrasonic sensor, proximity sensors, GPS and cameras. These sensors collect information about the surrounding area, forecast data and the mower's operation. During poor sunlight, when the mower's battery is running low, it automatically returns to its self-charging station to recharge. The mower can send data to the cloudfor further analysis and storage. Users can control the mower remotely through a smartphone app or a web interface. Mowing sessions can be initiated, terminated, or scheduled remotely from anywhere using smartphone.

Keywords: IoT, Artificial Intelligence, Solar Power, Autonomous Lawnmowers, Grassland Maintenance, Environmental Impact.

ENHANCING SECURITY WITH KEYSTROKE DYNAMICS: A MEMETIC ALGORITHMAPPROACH FOR PREPROCESSING TECHNIQUE EVALUATION

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ABSTRACT

The protection of computer resources from intruders remains a significant challenge in the realm of security. Traditionally, security measures rely heavily on username and password authentication, leaving systems vulnerable to various attacks. To address this issue, an effective and cost-efficient behavioral biometric technology known as keystroke dynamics can be leveraged. This technique authenticates users based on their unique typing patterns while working on a keyboard. Multiple keystroke features are extracted for each user, and in this paper, we propose a comparison of preprocessing techniques—mean, median, standard deviation, and Hausdorff distance—using the feature selection technique called Memetic algorithm. The objective is to identify the most effective preprocessing method, and our experimental results reveal that Hausdorff distance yields the best performance.

Keywords: Computer security, Keystroke dynamics, Behavioral biometrics, Preprocessing techniques.

MALWARE DETECTION AND ENCRYPTION USING ARTIFICIAL INTELLIGENCETECHNIQUES

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ABSTRACT

Our study demonstrates that adopting future Security has grown to be a significant concern as a result of the quick development of technology and the rise in malware activity, which seriously jeopardises the safety and security of both computer systems and stakeholders. Protecting the data from fraudulent attempts is one of the most urgent concerns for maintaining stakeholder security, particularly that of end users. Malware is a collection of malicious programming code, scripts, active content or intrusive software that aims to destroy intended computer systems, programmes, mobile apps and websites. Uninformed users are unable to distinguish between harmful and helpful applications, claims a study. In order to protect the stakeholders, computer systems and mobile applications should be built to detect malicious activity. We put a lot of emphasis on Artificial Intelligence (AI) based techniques in thisstudy for identifying and stopping malware activity. We provide a thorough analysis of the shortcomings of the most recent malware detection technologies as well as suggestion According to our study, developing malware detection software using futuristic methods will have significant benefits. Understanding this synthesis will aid researchers in their future work on using AI to detect and prevent malware.

Keywords: Artificial intelligence, Malware detection, Malware Alert, Additional Software Security, Malware prevention.

ELECTRIC VEHICLE USING BIDIRECTIONAL DC-DC CONVERTER FED BLDCMOTOR

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ABSTRACT

The growth and adoption of electric vehicles are rising in a society where environmental preservation and energy efficiency are vital. One of the most significant challenges in the progress of electric vehicles is the integration of different energy sources. Power supply for electrical vehicle is a crucial part of them. A suitable power supply can provide current continuously. The electric motor type and converter technology are very important in the vehicle's operating characteristics. A bidirectional DC-DC supplied BLDC motor for electric vehicles is proposed in this research. Therefore, the effective cost, weight, and space of the converter may be reduced by decreasing the quantity of energy storage components such switches, sensors, and inductors. The MATLAB/Simulink simulation programme isused to execute simulations, and the simulation results are displayed.

Keywords: MATLAB, Brushless DC motor, Regenerative braking, Electric Vehicle.

ENHANCING SKIN CANCER DIAGNOSIS THROUGH DEEP LEARNING:ACCURATE CLASSIFICATION USING ADVANCED TECHNIQUES

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ABSTRACT

The largest organ in the human body, the skin, is the furthermost commonly diagnosed form of cancer; millions of people are affected each year. Patients' chances of survival drastically decrease if cancer is not discovered in its early stages. Unfortunately, early cancer detection is a very expensive and time-consuming technique. The dataset for skin cancer includes both benign and malignant skin cancers. The small distinctions between it and conventional skin lesions make it difficult to detect in its early stages, according to researchers. It may therefore be difficult to spot a malignant skin lesion in its early stages. In this method, we'll go through a variety of technologies that can be used for skin cancer detection, classification, and results. The four steps that make up the standard method for early skin lesion identification are per-processing, segmentation, feature extraction, and classification. The sparse stack auto encoder and decoder with deep learning algorithm is used to detect skin cancer. It will make it easier to identify skin cancer in its early stages.

Keywords: Sparse Stack Auto Encoder (SSAE), Deep Learning.

UNEVILING SECRETS IN PLAIN SIGHT: EXPLORING STEGANOGRAPHY ANDSTEGANALYSIS

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ABSTRACT

Steganography is the act of hiding secret information in other data that appears innocent, including text, photos, audio, or video files, so that it is difficult to find the hidden information. Steganalysis is the process of finding concealed data or hidden information in digital material, including photographs, audio, video, and other files. Data that has been encrypted using the private key of the matching recipient can now be securely decrypted. Create an embedding algorithm to protect the qualityof the media. Completely implement the embedding process. Increase security by adding more layers to fend off steganalysis. Use the secret key to decode data that has been encrypted using the Blowfish technique. Block-wise decrypt the cipher text using Blowfish, then aggregate the results to get the plaintext that has been decrypted. The result is an image that, although it appears normal to the human eye, conceals data that has been encrypted using the Blowfish and RSA algorithms. The chosen steganography technique, the robustness of the algorithms, and the implementation's resistance to attempts at detection and decryption all have a role in the output's effectiveness.

Keywords: Steganography, Steganalysis, Blowfish Algorithm, RSA Algorithm, LSB Embedding Technique.

CARDIOVASCULAR RISK ANALYSIS USING MACHINE LEARNING APPROACH

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ABSTRACT

The heart is an essential component of our body; its proper operation is essential to our survival. The brain, kidneys, and other human body parts will be impacted if the heart's function is unsatisfactory. Cardiovascular disease is a condition that impairs heart performance. A variety of factors increase the risk of cardiovascular disease.Today, cardiovascular disease continues to be the leading cause of death worldwide. According to WHO's estimates, cardiovascular diseases are responsible for 12 million deaths worldwide each year. Data mining techniques allow us to predict diseases with accuracy. Heart attack, stroke, and coronary heart disease are a few examples of cardiovascular conditions. A system based on risk factors would benefit medical professionals as well as patients by alerting them to the potential for cardiovascular illness before the patient visit a hospital or undergo expensive tests. The world's most common cause of death, machine learning will help in predicting and making decisions according to the enormous amounts of data generated by the healthcare and hospital sectors. Machine Learning techniques are being used in a variety of fields.

Keywords: Machine Learning, Cardiovascular disease, Heart disease prediction, Random Forest, KNN, Support Vector Classifier, Decision Tree.

AUTOMATIC NEURON RECONSTRUCTION FROM 3D MICROSCOPE IMAGESUSING DEEP LEARNING

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ABSTRACT

The aim of neuron reconstruction is to create a 3D representation of the structure of individual neurons and their connections within the brain. This process involves tracing the intricate network of branches and synapses of a single neuron, which can be a challenging and time-consuming task. By reconstructing neurons, researchers can study their morphology, connectivity, and activity, which can provide insights into how the brain processes information, and how it is affected by disease and injury. This paper proposes a method for automatic neuron reconstruction from 3D microscope images using Deep Learning (DL). The proposed method involves training a convolutional neural network (CNN) to identify and segment individual neurons in 3D images. The segmented images are then processed using a graph-based algorithm to reconstruct the neuron structure. The method was evaluated on a dataset of 3D images and associated with former existing techniques. The results prove that the proposed current techniques outperform the existing methods in standings of accuracy and effectiveness. This method has potential applications in neuroscience research, where automatic neuron reconstruction can aid in understanding brain function and disease improvements. Our study demonstrates that adopting future Security has grown to be a significant concern as a result of the quick development of technology and the rise in malware.

Keywords: Convolutional Neural Network, Automatic Neuron Reconstruction, Deep Learning

INTEGRATING AN AUTONOMOUS EMERGENCY BRAKING SYSTEM WITH AMEDICAL ASSISTANT USING MACHINE LEARNING TECHNIQUES

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ABSTRACT

Autonomous braking systems, a prominent trend, utilize sensors and machine learning to enable vehicles to automatically detect and apply brakes to prevent collisions, enhancing safety by minimizing human error in emergency situations. The proposed system integrated solution where an autonomous braking system, empowered by machine learning, collaborates with a medical assistant upon pressing an emergency button on the steering wheel. This innovative system not only enables rapid collision avoidance and medical response but also incorporates an intelligent feature to guide the vehicle to a safe "green zone." Additionally, the system automates window opening to enhance ventilation and occupant safety, showcasing the potential of holistic technology convergence for improved road safetyand passenger comfort. The end result is a unified solution in which the autonomous braking system, backed by machine learning, reacts quickly to the emergency button pressed on the steering wheel. This move causes immediate braking and establishes communication with medical personnel, decreasing the severity of the impact. This device improves road safety by incorporating complex algorithms, potentiallysaving lives and reducing post-collision medical issues.

Keywords: Autonomous Braking System(ABS), Emergency Button on Steering Wheel(EBSW), Medical Assistant(MA), Green Zone Landing(GZL), Automated Window Control(AWC).

THE VEHICLE ACCIDENT EMERGENCY ALERT

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ABSTRACT

The Vehicle Accident Emergency Alert System is an Android-based application designed to quickly and efficiently send emergency alerts, including location information, to specific pre-selected contacts and emergency services such as 911. This system aims to improve response time and provide crucial information during vehicle accidents, enabling prompt assistance and potentially saving lives. The application utilizes various technologies available on Android devices, such as GPS for accurate location tracking, phone call functionality, and messaging capabilities. When a vehicle accident occurs, the system detects the impact or sudden deceleration using built-in sensors or external devices. Upon detection, the application initiates a series of automated actions to alert the user's chosen contacts and emergency services.

Keywords: Vehicle accident, Emergencyalert,Phone call, Message,Location tracking, Android app,Select particular number,911,Automated system, Prompt emergency response.

TUMOUR DETECTION AND QUANTIFICATION USING ANN ALGORITHM INARTIFICIAL INTELLIGENCE

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ABSTRACT

Artificial intelligence(AI) is more augmented intelligence and that is a fundamental philosophical direction it took where it is complementing people's intelligence with machines that have enough aspects of the intelligent problem solving capabilities that together the person and machine can do better than one or the other. Tumour classification and quantification in positron emission tomography (PET) imaging at early stage of illness are important for radiotherapy planning, tumour diagnosis, and fast recovery. There are many techniques for segmenting medical images, in which some of the approaches have pooraccuracy and require a lot of time for analyzing large medical volumes. Artificial intelligence (AI) technologies can provide better accuracy and save decent amount of time. Artificial neural network (ANN), as one of the best AI technologies, has the capability to classify, measure the region of interest precisely, and model the clinical evaluation. This paper proposes an intelligent system based on multilayer ANN, multi resolution analysis, and thresholding. The system has been evaluated and tested onphantom and real PET images, promising results have been achieved.

Keywords: Artificial intelligence, Artificial Neural Network, Medical Image, Positron Emission Tomography, Tumour.

UTILIZING CONVOLUTIONAL NEURAL NETWORKS FOR ACCURATE ANDEFFICIENT CLASSIFICATION OF PADDY LEAF DISEASES

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ABSTRACT

Paddy is essential for promoting rice growth and supporting aquatic life. Wetland ecosystems and the supply of rice are both maintained by sustainable paddy management. Significant losses in rice yield are caused by paddy leaf diseases, a global threat. Infections from bacteria, viruses, and fungi prevent photosynthesis and growth. By using data-driven insights, it revolution is decision- making, language processing, and image recognition. Deep learning teaches neural networks to analyze leaf images for paddy leaf disease classification, correctly classifying disease types for efficient agriculture management. To detect paddy disease, Convolution Neural Networks (CNNs) are used. They distinguish between healthy and diseased leaves by learning patterns and features, which enables quick, automated disease identification. CNNs transform disease monitoring, facilitating interventions and improving crop yield. The new CNN Inception V3 model with the keras framework used the dataset and achieved testing accuracy of 96% with a lower training error rate of 4%. The interpretation result shows that a novel CNN Inception V3 model outperformed more established techniques in terms of high level image classification accuracy and error rate. As a result, our model excels at identifying the paddy diseases and may be usedin practical applications in daily life.

Keywords: Convolutional Neural Network, Deep learning, Inception V3, Image Classification, Paddy Leaf Disease.

IOT BASED SMART WATER MANAGEMENT FOR RESIDENTIALS

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ABSTRACT

Water is an essential thing in our day- to-day life. Without water the whole day gets disturbed. If people fail to store water, their personal and household activities can't be done. People require effective water management to prevent water loss and contribute to water conservation. Only 0.08% of the planet's freshwater, which makes up only 3% of total freshwater, is available to humans for domestic and drinking use. Unwanted water usage is a big concern for society. As a result, we looked for a solution and are now deploying an IoT-based smart water management system for residences. The objective is to monitor and manage the supply water flow for residents. The system, which comprises of numerous sensors, measures the water level and can detect leaks as well as water inflow. The Arduino controller will control the operation of sensors and process the obtained values from the sensors. The collected data is obtained by the ESP8266 Module and can be finally seen online. LCD is used to display the observations. It focuseson minimising the amount of effort and time required anytime a person needs to start or stop the flow of water at a pipeline.

Keywords: Internet of Things (IoT), Arduino controller, Water Management

MONITORING THE PROGRESS OF LABOUR FROM REMOTE AREA USINGLORAWAN

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ABSTRACT

This original study proposes an innovative way for monitoring labour from a remote location utilizing medical internet of things (IoT). Three to four out of every ten first-time pregnant moms are unaware that they are in labor, which causes them to delay going to the hospital. There has been an abundance in recent times. This equipment that I am inventing can detect real labor pain by maintaining contractions in the uterus when real labor pain occurs, minimizing unneeded delay and fear. When there isgenuine pain, the information is given to the hospital and the doctor, and it is then passed to the ambulance truck. The hospital will dispatch an ambulance. The employment of previously invented equipment (CHG) necessitates inpatient admission prior to the commencement of labor, as well as the confinement of pregnant women on hospital grounds. The instruments are both enormous and pricey. It emits information in the form of waves. It can only be diagnosed by qualified doctors. But the device I'm looking for allows pregnant women to wear it and stay within a 150-kilometer radius of the hospital. It is small and lightweight enough to be worn around the waist and emits pulses that paramedics can easily understand. We use long-range active sensors (LoRa), which function in wide-area network Ttechnology and are intended for long-distance communication at low data rates. It is frequently employed in applications such as IoT, where devices must broadcast little amounts of data over great distances while conserving battery life. Accelerometers also monitor acceleration and can be used to infer movement and contractions. They are frequently used to track activity in wearable fitness gadgets.

Keywords: Medical Emergency, Internet of Things (IoT), Labour Pain, Long Range (LoRa) and Accelerometers.

ENHANCING MULTIVARIATE WEATHER PREDICTION THROUGH DEEP NEURAL NETWORKS AND PARTICLE SWARM OPTIMIZATION

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ABSTRACT

Weather predictors, it's never simple to predict the weather correctly. On the basis of a number of weather factors, such as moisture, condensation point, and wind speed, the Deep Neural Network (DNN) model is developed to predict minimum and maximum temperatures. The Particle Swarm Optimisation (PSO) technique is used to choose pertinent and important features from the datasets in order to improve the model's predictability. The grid search approach is used to locate the hyperparameters of the proposed DNN model. Utilising the statistical indicators Mean Square Error, coefficient, and Correlation Coefficient, the prediction model's accuracy is evaluated. The application of the proposed model is relatedto that of the SVM and VAR models. The studies' findings show that the suggested model, improvedusing PSO, offers a higher level of prediction accuracy than traditional approaches.

Keywords: Particle Swarm Optimisation, Deep Neural Network, Weather Prediction.

EXPERIMENTAL EVALUATION OF PROXIMITY SENSORS FOR DELIVERING THE DESIRED VOLUME OF HERBICIDES

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ABSTRACT

An attempt was made to develop a sensor activated spraying system to apply herbicide inbetween plants in intra row area for avoiding the problems of removing intra row weeds mechanically as well as manually and also to reduce the application of chemical and thereby soil and environmental pollution. The experimental set up were developed to study the sensing accuracy, length and volume of chemical delivered in between plants in intra row as influenced by the crop, machine and operational parameters. The sensor activation experimental set up developed to optimize, sensing accuracy. For this experimental study following parameters and their levels selected were width of crop canopy (L) viz., 100, 125, 150 and 175 mm, distance of the sensor from the plant (D) *viz.*, 100, 125, 150 and 175 mm and forward speed of operation (S) *viz.*,1.0, 1.5 and 2.5 km h^{-1}. The treatment combination of $S_1L_2D_1$ were optimized from laboratory experiment one and two for develop intra row weeding mechanism. These treatment combinations registered environmentally feasible discharge rate of chemical and maximum sensing accuracy than other treatment combination

DEEP CONVOLUTIONAL NEURAL NETWORK FOR PLANT DISEASE ANALYSIS

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ABSTRACT

In this paper, we discuss the architecture and training process of a CNN model for plant disease diagnosis. A vast reservoir of plant imagery, encompassing specimens both flourishing and blighted, constitutes the dataset from which the model is trained. In the realm of plant disease diagnosis and treatment, Convolutional Neural Networks (CNNs) have been applied. The implementation of deep learning techniques in precision agriculture has recently gained considerable focus for their capability to detect and diagnose early-stage plant diseases. The process involves much laborious calibration with sophisticated algorithms attuned to detect minute variations between these diverse photosynthetic organisms. The model uses convolutional layers to extract features from the images and learns to classify the plants into their respective disease categories. In the study, we delve into the feasibility of utilizing CNN to enhance precision agriculture practices. Early recognition of plant conditions is made possible by this model's ability in identifying types of diseases they may possess, enabling farmers to mitigate and control these issues with immediacy. Moreover, it can give valuable information concerning proper treatments for each disease type that would improve pesticide use efficiency while lessening its negative effect on nature. The results of our experiments demonstrate the effectiveness of the CNN model in plant disease diagnosis and treatment. The model achieves a high level of accuracy in identifying different types of plant diseases, outperforming traditional machine learning algorithms. The termination of this manuscript emphasizes the conceivable power that CNN holds in regard to detecting and curing plant diseases. By introducing deep learning algorithms into precision agriculture, it is possible for farming procedures' efficiency and eco-friendliness to be enhanced considerably. In doing so, a more resilient agricultural sector can be fostered with higher productivity rates than before. The exploration of three key neural network architectures, Faster Region-based Convolution Neural Network (Faster R-CNN), Region-based Fully Convolutional Neural Network (R-CNN), and Single Shot Multi-box Detector (SSD), is a significant step forward in the realm of disease detection. The proposed system exhibits remarkable efficiency in identifying various types of diseases, even in complex scenarios. The validation results, boasting an impressive 99.6% accuracy rate, underscore the feasibility of employing Convolutional Neural Networks (CNNs) as a potent tool in addressing this intricate problem. This success paves the wayfor the application of AI-based deep learning solutions, offering a ray of hope in the realm of healthcare for tackling complex medical challenges with exceptional precision and reliability. Nonetheless, it is crucial to remember that thorough validation, diverse dataset testing, and real-world clinical evaluation are imperative before contemplating the integration of such AI systems into healthcare practices. Additionally, issues of model interpretability, data privacy, and adherence to regulatory standards should be given due consideration in the deployment of AI solutions within the medical domain.

Keywords: Convolutional neural network (CNN), Deep learning, F-CNN Fuzzy CNN (Faster R-CNN), Region-based Fully CNN(R-CNN) and Single shot Multi-box Detector (SSD).

HYPERPARAMETER TUNING FOR RECOMMENDATION ALGORITHMS

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ABSTRACT

Recommender systems play a crucial role in the functionality of digital systems. The function of this mechanism is to serve as a means of refining and tailoring content in order to cater to the specific preferences and needs of the intended recipients. Consequently, this process aims to enhance the financial gains of the enterprises involved. Therefore, it is crucial to optimize recommendation systems in order to provide accurate and highly tailored content. Linear recommender systems have been found to yield moreprecise outcomes compared to alternative models. This can be mostly ascribed to the absence of fine- tuning in other models and the inappropriate selection of a baseline model. Hyperparameter tuning is a technique employed to optimize the selection of initial model parameters, hence maximizing the performance of the model. Our Research focuses on optimizing the current state of-the-art recommender systems further by applying hyperparameter tuning algorithms. Thereby maximizing the performance of the recommender model. Through our research we aim to enhance the user experience across various platforms that use recommender algorithms. The scope of the research is limited to linear algorithm SLIM (Sparse Linear Method) which currently has state-of-the-art performance as stated in the literature.GridSearchCV was used for hyperparameter tuning. This brought change in the accuracy of the algorithm from 74% to 83%. The algorithm evaluated is the basic model of SLIM implemented using SGD algorithm.

Keywords: Hyperparameter tuning, SLIM, EASER, User- KNN

EXPLORING MUNICIPAL WASTE MANAGEMENT POWERED BY ARTIFICIALINTELLIGENCE

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ABSTRACT

Municipal waste management is a critical aspect of urban sustainability, presenting numerous challenges in the efficient handling and disposal of waste materials. In recent years, the integration of artificial intelligence (AI) technologies has emerged as a promising solution to enhance waste management processes. This abstract provides an overview of the role of AI in municipal waste management, highlighting its potential to optimize waste collection, sorting, recycling, and disposal. AI- powered systems can analyze data from various sources, such as sensors, IoT devices, and cameras, to improve route planning for waste collection, enhance recycling efficiency, and reduce environmental impacts. Furthermore, AI-driven predictive analytics and machine learning algorithms enable municipalities to forecast waste generation patterns and allocate resources more effectively. This article underscores the transformative potential of AI in revolutionizing municipal waste management practices, promoting sustainability, reducing operational costs, and mitigating the environmental impact of waste disposal. **Keywords:** Artificial Intelligence, Waste Management, Sustainability

WEEDS CLASSIFICATION IN SOYBEAN CROPS USING DEEP LEARNINGALGORITHM

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ABSTRACT

For weed detection in soybean fields, a deep learning-based approach is proposed in this paper. The proposed approach employs convolutional neural networks (CNNs) to automatically identify weeds in cropped pictures. The dataset utilised in this study consists of pictures of soy fields with and without weeds. The photographs are improved and pre-processed to enhance the efficiency of the model. A feasible strategy for weed control in agriculture is provided by the suggested model's high performance in weed detection in soybean fields. Overall, this work demonstrates the importance of deep learning in modern agricultural practises and provides information about how it might be used to identify weeds in agricultural settings. In conclusion, this research provides an effective and precise deep learning enabled technique for weed identification in soybean crops. The suggested method could increase crop productivity, encourage sustainable farming practises, and significantly reduce the time and labour required for weed control. Overall, this work significantly advances the subject of precision agriculture and stresses the value of crop management techniques that are technology-driven.

Keywords: Convolutional Neural Networks, Sustainable Farming, Deep Learning

A MULTILAYER AND LINEAR REGRESSION ALGORITHM FOR EFFECTIVEPREDICTION IN CROP IRRIGATION

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ABSTRACT

Freshwater is needed to irrigate and the giving nutrients to plants in order to make up for rainfall deficiencies. Over 70% of the freshwater that is available is used for agricultural purposes. This highlights the value of using clever agricultural water technologies while practising prudent management. The implementation of existing machine learning for farmers usage in the quest of sustainable irrigation are all topics covered in this article, along with the recent research trend and implementation of machine learning techniques. We can compute the quantity of water needed for irrigation with greater precision using records of rainfall and crop output in every given location. This technique shows the research trends and applicability of machine learning techniques and also the deployment of developed machine learning models for farmers usage that leads to sustainable irrigation management. With the datasets of rainfall and amount of crop can be yield in any particular area, we can calculate the amount of water need for irrigation with increase in accuracy.Here we use two machine learning algorithms such as Linear Regression(LR) and Multilayer Perceptron(MLP) to predict the amount of irrigation required to yield a crop. After comparing the both algorithm in aspect of accuracy and efficiency, we recommend the best algorithm.

Keywords: Precision Irrigation,LR,MLP.

EXPLORING THE MENTAL HEALTH DEPRESSION OF YOUTH AND ADULT USING MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE APPROACHES

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ABSTRACT

Social media is presently reporting a rise in popularity. Day to-day and each minute, numerous emerging technologies are developing. The general public uses mobile phones 99.9% of the time and works from anywhere in the world. Additionally, the influence of social media is seen in apps and websites. Several positive effects are fashionable on social media, but similarly, negative things are happening in the present state. Machine Learning (ML) and Artificial Intelligence (AI) models are utilisedto detect the depression of youth and adults to avoid suicide. The ML model learns from a large dimensional dataset and finds useful patterns in a large number of datasets for intelligent decision making. This research has motivation for future research and interventions when it comes to understanding how depression occurs and affects the mental health of youth and adults.

Keywords: Machine Learning, Youth depression, Adult depression, Artificial Intelligence, Mental health depression

INTERACTIVE MEDICAL ASSISTANCE WITH GENERATIVE PRE-TRAINEDTRANSFORMER USING GEN AI

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ABSTRACT

The rapid advancement of artificial intelligence (AI) technologies has significantly altered the healthcare business. It covers the emulation of human cognitive functions in machines, such as language understanding, problem solving, learning, and reasoning. Its purpose is to enable machines to accomplish tasks. A chatbot is a piece of AI-driven software that replicates human communication through text or voice interactions, assisting users with tasks, giving information, and engaging them in a human-like manner. It simulates natural communication in voice or text-based interactions. The goal of (GAN) is to generate new data that closely resembles a given dataset. The Generative Pre-trained Transformer (GPT) was designed primarily to address language production challenges. It has a transformer-based architecturethat is useful for processing sequential data such as text. The use of NLP (Natural Language Processing) allows for easy user-Generic AI dialogue. MediBot development and implementation would be requiredto assure accurate information, user privacy, and ethical issues. MediBot recommends focusing onmedical and health-related interactions. Our response will be precise, instructive, and offered in the context of general medical advice. The method should not be used in place of expert medical diagnosis or treatment. The use of Generative AI in Medi Bot for healthcare applications would improve medical support, facilitate informed decision-making, and empower individuals to take charge of their health in aninteractive and intelligent manner.

Keywords: NLP, GPT, GAN, GEN-AI, AI-enhanced patient care.

UNMANNED SURFACE VEHICLES DETECTION IN SEA AREAS USING YOLOV8ALGORITHM

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ABSTRACT

Monitoring unmanned surface vehicle in sea area is crucial element. Ignorance of autonomous vehicle in waterway can affect the navigation safety. There are some problems in capturing a image of moving object, the object identification should be fast and accurate. YOLO v8 object detection algorithmis faster ,very Precise and give accurate results. There are 5 version of YOLO v8 algorithm each version are implemented and tested in this paper for target detection. The Vanishing Gradient problem can affect the performance and makes dataset training tough. The Vanishing Gradient problem arises in CNN algorithm which is solved in this algorithm with zero gradient. The Proposed YOLO v8 object detection algorithm helps address the above issue. First, the Backbone module in the algorithm extract the image and pass it to the 5 layers with its corresponding convolution layer. Second ,the head module detect the refined 3 layer of images and passes the hidden layer and the object is detected. This algorithm take less time when compared to traditional object detection algorithm. In the proposed YOLO v8 Large algorithm,the detection area is set focus to the centre and anchor free, and the target identification accuracy level is increased. The proposed Procedure gives 97% accuracy and 91.29% Precision for ship detection, while comparing with CNN the accuracy is 4.44% increased.

Keywords: Unmanned surface vehicle, Target ship detection, Backbone Module, Head Module, YOLO v8 algorithm, anchor free object detection algorithm.

HIGH STEP-UP DC-DC CONVERTER FOR PHOTOVOLTAIC APPLICATION

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ABSTRACT

This paper proposes a solar irradiation modeling based maximum power point tracking (MPPT) algorithm for photovoltaic (PV) system with a high step–up converter design. The proposed algorithm aims to overcome the confusion in the direction of tracking during rapidly changing solar irradiance usinghalf sine wave modeling of solar irradiation and the results are compared with classical perturb and observe (P&O) method and dP perturb and observe (dP P&O) method. Also, to improve the voltage rating, a new high step-up dc to dc converter is proposed and the results are validated with a boost converter. The performance of the proposed algorithm is verified for different insulation levels during a day in a specific area

ENHANCING MAIZE LEAF DISEASE PREDICTION WITH ADVANCED MACHINELEARNING MODELS

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ABSTRACT

This study focuses on improving the accuracy of maize leaf disease prediction through the implementation of advanced machine learning models. Maize, a crucial staple crop, is vulnerable to various leaf diseases that can significantly impact yield and food security. Conventional disease detection methods often lack precision and speed. To address this, we harness the power of advanced machine learning techniques, particularly convolutional neural networks (CNNs) and deep learning algorithms. Leveraging a comprehensive dataset comprising various disease categories, including Common Rust, Gray Leaf Spot, Blight, and Healthy leaves, we train and fine-tune our models. Our findings demonstrate that these advanced models offer a substantial leap in disease prediction accuracy, enabling timely interventions and improved crop health management practices. This research contributes to the advancement of precision agriculture by providing a reliable tool for farmers and agronomists to enhance maize production sustainability.

SMART ACTIVITY RECOGNITION DEVICE FOR PHYSICALLY IMPAIREDPEOPLE USING CNN

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ABSTRACT

Knowledge and expertise consume complete mortal life and are addicting to well-being, yet coincidentally,here is a tyrannised gathering of individuals who are coming to blows for pursuing a dejected and inspired mode that can make their lifecycle calmer for them. Subsequently, concentrate and punctuate the complications handled by the physically disabled persons, such as the eyeless and deafened;working by the expedient unaccompanied is a veritably tough mission. A load of disquisition must remaincomplete on every single problem, and provisions must be planned separately. The model of the clever assistive expedient is to fete exertion for other physically impaired persons, thus making them feel self- assured and self-determining by serving them towards recognising stuff restraining them. The planned expedient SARD supports the physically impaired by captivating images and bouncing the issue in the formula of acoustics. Laterally, through that, it also spots complications and restraining all-encompassing counsel for those persons.

INSTANT TRANSITION MODE DECOMPOSITION FOR LINEAR AND NON-LINEARSIGNALS

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ABSTRACT

In this proposed work, we are introducing a novel adaptive decomposition method based on the instantaneous variations in the disintegration of a signal. There are many techniques introduced for the decomposition of linear and nonlinear signals, but all these methods are concentrated on crest diversity which can't trap instantaneous information at every time instant of the signal. To overcome this a novel approach, instant transition mode decomposition (ITMD) is proposed here, allowing a complete recovery of signal information at every instant of time. The decomposition levels of this method will contain every local information of the signal. These features at every time instant are handy for detecting irregularities in the signal. The proposed method is evaluated on two different types of signals, and these experiments exhibit that the projected technique achieves imperative improvements over the recent state-of-the-art methods.

DEEP LEARNING BASED HANDWRITTEN ODIA CHARACTER DATASETCREATION AND ITS RECOGNITION

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ABSTRACT

There is a level of saturation obtained in Online or Printed character recognition about Indian script.Comparing the research of different Indian languages obtained yet a few researches has been done for Odia characters. There are still more research remains valid while recognizing handwritten Odia script .Due to unavailability of bench mark of Odia characters data it is one of the challenging task for us to recognize Odia handwritten characters. First we have decided to create a large dataset of Odia Character that include all simple character that include vowels as well as consonants , compound characters and digits then find its accuracy by using deep learning techniques. In this paper we have created a character dataset of both simple and compound character and converted into gray scale image as well as inverted image. We collected the dataset from different source and used a technology like preprocessing methodology, segmentation approaches, feature extraction techniques and classifier model .We have created approximately 35000 of simple character and 16000 of compound character that will useful more in future research and we have used deep learning technique for only vowel character recognition and findits better accuracy .

EMOTIONAL ANALYSIS BASED ON NEURAL NETWORKS

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ABSTRACT

This approach gives an advanced alternative to the existing Sentiment analysis models. Emotional Models are a bit trickier than the traditional Sentiment Models as they analyze human emotions by identifying the context of a text, which is different from a Sentiment Model where only the polarity of the text is calculated and the prediction is either positive or negative. The Model requires a huge dictionary of lexicons which points to different emotions. This can be used to analyze a text based on the lexicons that belong to a particular human emotion. The words in the text are embedded with low dimensional vectors, which makes it easier to use in the Neural Network Models. The purpose of emotional analysis is to identify the sentiment of a given text. In general, emotional analysis can predict emotions such as anger, happiness, surprise, sadness and so on. The classification of the emotions can only be achieved through psychological models that define human emotions in terms of mathematical values. Emotion Models are built based on Natural Language Processing and Text Analysis using Deep Learning Techniques. Tweet Analysis helps in classifying data about a specific brand or a product and its interest among the user

BIO MEDICAL WASTE MANAGEMENT FOR HEALTH SECTOR USING TENSORFLOW OBJECT DETECTION: A COMPREHENSIVE APPROACH

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ABSTRACT

Effective medical waste management is crucial for public health and environmental safety.Current hospital waste management systems lack automation for waste segregation. The waste was sortedby health workers manually into corresponding colour bin. This research paper presents a approach to classify medical waste using the SSD MobileNet object detection model. The proposed model exhibits exceptional accuracy and efficiency, classifying medical waste into five categories, Contagious Waste, Non-Contagious Waste, Infected Waste, Sharps, and Glassware. The model achieves an average precisionand recall around 90%, demonstrating its ability to accurately identify and localize medical waste objects.The deployment of the model in healthcare facilities holds promise, enabling automatic waste segregation, efficient disposal, and enhanced safety. This research significantly contributes to medical waste management, addressing a critical aspect of public health and providing a foundation for automatedwaste segregation in healthcare sector.

IOT BASED TOXIC ENVIRONMENT MONITORING ROBOT

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ABSTRACT

Generally industries are located in the outside cities vehicle use, industrialization and urbanization which results in harmful effects on human wellbeing by directly influencing health of population exposed to it. Poor environmental conditions can lead to severe health problems. Nowadays people are affected by harmful gases in perilous environment. The important of this paper is observing harmful environmental conditions for safety applications. In this paper we detailed a survey on toxic environment monitoring based on different technologies using sensors. This work is used for monitoring and controlling hazardous environment, chemical industries, industries area. Controlling & monitoring purposes using internet of things. Industrial safety industrial working people safety & industries surrounding living people safety to avoid major industries accident or any industries accident occurring time give alert warning to fire station, police station, hospital etc.

ECOEDGE: SUSTAINABLE AGRICULTURE REVOLUTION THROUGH IOT-ENABLED EDGE COMPUTING

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ABSTRACT

The agricultural industry is currently at the forefront of a significant transformation, marked by the integration of advanced technologies driving sustainable progress. The implementation of the Internet of Things (IoT) has ushered in a data-driven era in agriculture, enabling precise and cost-effective farm management while upholding environmental sustainability. Conventional agricultural technologies, such as IoT and cloud computing, hold the potential to revolutionize the agriculture sector by introducing robotics and artificial intelligence. While these developments hold great promise, they also come with their unique set of challenges like redundant data and latency problems within wireless sensor networks (WSNs). These challenges not only lead to increased time and energy consumption but also pose impediments to the advancement of our farming community. In response, this paper introduces , which leverages IoT-enabled edge computing to provide real-time data processing and decision-making capabilities at the farm level. The key focus areas include precision agriculture, resource optimization, and improved data analytics, leading to minimized waste, reduced environmental impact, and maximized crop yield and quality. represents a significant step forward in advancing sustainable agriculture practices,aligning with the growing need for innovative solutions in the face of increasing global food demand and environmental challenges. underscores the potential of IoT-enabled edge computing as a catalyst for transformation in agriculture, providing a multitude of benefits to both individual farmers and the agricultural industry as a whole as such advancements are pivotal in our collective pursuit of a more environmentally responsible world and a sustainable future.

BIOMETRIC AUTHENTICATION IN WIRELESS SENSOR NETWORKS

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ABSTRACT

User Authentication is important for customized services and restricted access control in Wireless Sensor Networks. Considering the need, the proposed Enhanced Biometric System to provide authentication for accessing the information from Sensor nodes. The user will be granted access by the Enhanced Authentication System to the user for accessing sensitive information from Wireless Sensor Networks. And also in this finger vein is used as the biometric. The following methods are used to generate password from the bio metric such as Preprocessing, ROI, and Feature Extraction. The proposed scheme does not require the user password. As a result, the proposed scheme has more efficiency and strong security.

AUTOMATIC ROAD REFLECTOR STUD INSTALLATION ROBOT

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ABSTRACT

The Automatic Road Reflector Stud Installation Robot is an innovative and technologically advanced solution designed to streamline and automate the installation of road reflector studs on highways and roads. This robot is an intelligent and efficient alternative to traditional manual methods, offering significant advantages in terms of precision, speed and safety. The Automatic Road Reflector Stud Installation Robot is equipped with futuristic sensors and imaging systems that enable it to accurately detect road markings and assess the vision algorithms and machine learning techniques, the robot can efficiently analyze road conditions and plan the most effective stud installation patterns. As technology continues to progress, The Automatic Road Reflector Stud Installation Robot represents a crucial transportation system worldwide.

TRAFFIC SIGN RECOGNITION IN DIVERSE LIGHT

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ABSTRACT

In the realm of computer vision and artificial intelligence, road sign recognition plays a pivotal role in enhancing road safety and autonomous navigation systems. This study presents a novel image filtering concept implemented in MATLAB for robust roadsign recognition. The proposed method employs a combination of traditional image processing techniques and AI approaches to improve accuracy and efficiency. Initially, pre-processing techniques like noise reduction, contrast enhancement, and color space conversion are applied to incoming images. Subsequently, a convolutional neural network(CNN) is utilized for feature extraction and classification, taking advantage of its ability to learn complex patterns and representations from data. To further enhance accuracy, a region of interest (ROI) detection mechanism is integrated, allowing for efficient localization of road signs within images. Experimental results demonstrate the efficacy of the proposed approach in accurately recognizing and classifying road signs under various environmental conditions, making it a promising tool for real-world applications in autonomous vehicles and road safety systems.

ANOMALY DETECTION IN FINANCIAL DATA: LEVERAGING MACHINELEARNING

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ABSTRACT

Financial markets generate vast volumes of data, and within this data, anomalies or abnormal patterns can hold critical information for investors, regulators, and financial institutions. Identifying these anomalies is crucial for risk assessment, fraud detection, and informed decision-making. Leveraging the power of machine learning, this project presents an approach to detect anomalies in financial data. The project begins with the collection and preprocessing of financial data from various sources, ensuring data cleanliness and reliability. Exploratory data analysis techniques are applied to gain insights and engineer relevant features. Different anomaly detection techniques, including statistical methods and machine learning algorithms, are employed to identify deviations from normal behavior. The model's training phase involves data splitting and the selection of an appropriate anomaly detection algorithm. Threshold determination, which plays a vital role in detecting anomalies, is addressed, and the integration of domain knowledge is emphasized. Real-time monitoring systems are considered for applications that require continuous anomaly detection in streaming financial data. The project also delves into the challenges and limitations associated with anomaly detection in financial data, along with strategies for model refinement. As transparency and interpretability become increasingly important, the project discusses approaches to explain model results to stakeholders. Additionally, it touches upon the compliance and regulatory considerations relevant to financial data handling, including data privacy and security concerns. In conclusion, this project showcases the value of leveraging machine learning for anomaly detection in financial

data. Identifying and addressing abnormal patterns contributes to more informed decision-making, reduced risks, and enhanced security in the complex world of finance.

IMPROVED PERFORMANCE OF MODULAR MULTILEVEL CONVERTER FORDFIM DRIVES USING AI CONTROLLER

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ABSTRACT

The modular multilevel converter (MMC) is a rising topology with measurable technology for making high voltage and power conversion applications. The MMC provides extract solution for controlling the speed of induction motor in high power network. The research of the paper is focused towards improving the performance of MMC for control of induction motor drive using AI (artificial intelligence) controller. The AI controller generates the triggering (PWM) pulses. These pulses are used to define the switching rate of converter. The performance measure of MMC is evaluated through weighted total harmonic distortion (WTHD). The design of the system is analyzed through simulink model. The AI controller keeps the finite rate of switching frequency, which will be support to reducing the losses and improving the motor efficiency.

Keywords : Modular Multilevel Converter, AI Controller, Weighted Total Harmonic Distortion.

THERMODYNAMIC STUDIES ON REMOVAL OF BISPHENOL A FROM THEIR AQUEOUS MEDIUM USING IMIDAZOLIUM BASED IONIC LIQUIDS

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ABSTRACT

Measurement of the densities of distilled waters, 1-ethyl-3-methylimidazolium ethylsulfate {[EMIM][EtSO4]} and aqueous bisphenol A (aq.BPA) for 1 ppm, 5 ppm, 10 ppm, 15 ppm,20 ppm, 25 ppm at T = (293.15 – 343.15) K is the spotlight.Determining the volumetric properties of 1 ppm aq.BPA +{[EMIM][EtSO4]}, 5 ppm aq.BPA + {[EMIM][EtSO4]}, 10 ppm aq.BPA + {[EMIM][EtSO4]}, 15 ppm aq.BPA +{[EMIM][EtSO4]}, 20 ppm aq.BPA + {[EMIM][EtSO4]} and 25 ppm aq.BPA + {[EMIM][EtSO4]} is attempted. Subsequently, the hydrophobic imidazolium based IL 1-butyl-3-methylimidiazolium bis (trifluoromethyl sulfonyl) imide {[BMIM][NTf2]} is used in the extraction of BPA from its aqueous environment at 298.15 K and at 1 atm. Solvent Extraction process determines the Distribution coefficient (D) and extraction efficiency (%η).

Keywords : Ionic liquids, Density, Solvent Extraction

EXTRACTION OF KERATIN FROM WASTE BIOMASS OF HUMAN HAIR ANDEGGSHELL FOR THE FABRICATION OF BIOPLASTIC

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ABSTRACT

Plastic bags and plastic product, derived from petroleum-based high-density polyethylene, have become integral to modern lifestyles, leading to widespread environmental concerns due to their persistence in landfills. Plastic offers a variety of benefits, in a variety of shapes, such as sheets, panels, film, which can all be flexible as the application requires. Humans are also affected by plastic pollution, such as through the disruption of the thyroid hormone axis or hormone levels. Thus, the biodegradable plastic becomes a promising solution to solve all these problems. Hence the objectives of this research areto develop and produce biodegradable plastic that will substitute the existing non-biodegradable plastic using keratin from human hair and eggshell waste, creating eco-friendly films Characterized through SEM, FTIR, TGA, and XRD to assess their chemical composition, thermal, and crystalline properties. Importantly, these bio-plastics demonstrated biodegradability in tests, highlighting their potential as a sustainable alternative to traditional plastics derived from fossil fuels. This research successfully synthesized bio-plastics using keratin from human hair and eggshell samples. The addition of glycerol influenced the tensile strength and elongation at break, enabling control over these properties. Films with
2 wt% glycerol exhibited optimal mechanical and thermal characteristics, as well as homogeneoussurfaces. SEM tests confirmed compatibility and absence of defects. These bio-plastics are biodegradable and offer a promising alternative to environmentally harmful fossil oil-based materials.

Keywords— Bioplastic, Keratin, Eggshell Waste, Homogeneous Surfaces, Tensile Strength, SEM, FTIR, TGA, XRD

ULTRA-SONICATION EXTRACTION METHOD VITAMIN B9 EXTRACTION FROMROMAINE LETTUCE

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ABSTRACT

Vitamin B9 (C19H19N7O6) or folate is a water-soluble vitamin found in wide variety of foods, including vegetables (especially dark green - leafy vegetables), fruits and fruit juices, nuts, beans, peas, seafood, eggs, dairy products, meat, poultry, and grains. The highest level of folate is generally found in spinach, liver, asparagus and Brussels sprouts. This work represents an efficient and economical way to extract Vitamin B9 from Fresh Romaine Lettuce using Methanol and Ethanol in soxhlet apparatus. The extraction was carried out using two different conventional solvents. Different time intervals were varied from 0 min to 30 mins for extraction and yield was carried out. Compositional analysis using FTIR and HPLC were validated the experiments. Finally, the concentration of the extraction was achieved as 80% per gram of sample.

Keywords : Vitamin B9, Romaine Lettuce, Ultra-sonication Extraction

DEVELOPMENT OF A BIONIC ARM FOR PROSTHETIC APPLICATIONS

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ABSTRACT

This project aims to design and develop a bionic arm that can mimic the movements and functionality of a human arm. The bionic arm will incorporate sensors and actuators, enabling it to respond to the user's motion in a more intuitive and natural way. The project will focus on developing a modular design that can be easily adapted to different users' needs. The arm will also be programmedwith control algorithms that can adapt to the user's behaviour and provide a seamless experience. Thefinal product will provide a more natural and functional alternative to conventional prosthetic arms, improving the quality of life for amputees and individuals with mobility impairments.

Keywords : Bionic Arm, Prosthetics, Amputee, Mobility.

SYNTHESIS OF TIO2/GRAPHENE OXIDE NANOCOMPOSITES FOR THE ADSORPTIVE REMOVAL OF CIPROFLOXACIN FROM AQUEOUS SOLUTIONS:SYNTHESIS, CHARACTERIZATION, KINETIC AND ISOTHERM STUDIES

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ABSTRACT

A fluoroquinolone antibiotic called ciprofloxacin (CIP) is taken as a model pollutant and is usedto treat many bacterial illnesses. In order to produce TiO2/Graphene oxide nanocomposites, we suggest using titanium deposition on graphene oxide (GO) nanosheets. Due to the hydrophobic/hydrophilicincompatibility of graphene oxide with titanium oxides, this chemical route of solgel method was employed. FTIR (Fourier Transformation Infrared) and SEM (Scanning Electron Microscope) were twoof the diffraction methods that were effectively used to characterise the produced GO/TiO2 nanocomposites. The FTIR spectra and SEM images indicated the adsorption of ciprofloxacin onto the synthesized GO/TiO2 nanocomposite. The batch wise experimental studies were done to explore the influence of process variables on removal of ciprofloxacin from synthetic wastewater and to determine optimized conditions. Under optimized conditions of pH 6.5, temperature 30◦C, initial ciproxacin concentration 30 mg/L, nanocomposite quantity 2 g/L and interaction period 120 min, the nanocomposite removed 97.64% of ciprofloxacin. The isotherm and kinetic study showed that monolayer Langmuir model was obeyed (R2 = 0.9781) and the experimental value of ciprofloxacin adsorption correlated well with pseudo second order model (R2 = (0.9896–0.91088)) respectively. It was determined that the maximal adsorption capacity was 146.32 mg/g. The results of the thermodynamic investigation showed that the ciprofloxacin sorption was exothermic (ΔH˚) and spontaneously (ΔG˚). According to desorption studies, the GO/TiO2 was renewed for six cycles utilising a 1 N NaOH solution.

Keywords : Titanium dioxide, Graphene oxide, Nanocomposite, Ciprofloxacin Efficiency

STABILITY STUDY OF GO-KART VEHICLE ON THE GROUND

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ABSTRACT

This report details the methods and procedures used to develop a comfortable, lightweight, long- lasting, and affordable go-kart complete in every way by using CAD software to model it. Using the Design report, CAE Analysis, steering system, Braking system, and Cost report, the sustainability of the go-kart design was evaluated. The paper mainly concentrates on a vehicle that is technically sound and supported by a solid design and ethical manufacturing procedures. The study outlines the methodology and selection criteria.

Keywords : comfortable, lightweight, long-lasting, affordable, CAE Analysis

SMART SEED SOWING MACHINE USING ZERO TILL FARMING

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ABSTRACT

For a very long time to come agriculture will continue to be the foundation of the Indian economy. The agriculture sector is expanding quickly to fulfil future food needs. The most crucial step in farming is sowing. It is a labor-intensive process that takes a long time and a lot of human work. The fundamental criterion for a sowing machine is that it be suitable for all farms, all kinds of crops, have a sturdy build, and be trustworthy. Therefore, the created a sowing machine that is manually operated but decreases the effort of formers, boosting the efficiency of planting and decreasing the issues with manual planting. Before creating a new process or product, it is crucial to take into account the behavior of the new technology that utilized in order to make it economically feasible, as well as its impact on society. A seed-sowing device that enables farmers to collect the best produce with the least amount of work has been developed in this work. A Solar Operated Automatic Seed and Fertilizer Sowing Machine Using Zero Till Farming is designed and constructed. The mechanical aid for sowing operations that is managedby an Arduino Mega microcontroller.

Keywords : Seed sowing, agricultural, fertilizers, spacing, machineries, sowing methods

IMPLEMENTATION OF AI BASED VIRTUAL LABORATORY USING INTELLIGENT CONTROLLER WITH CC-LINK IE REMOTE IO MODULE

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ABSTRACT

Most universities and colleges in the world are offering their courses online. Online education alone does not help to develop the full learning potential. Methodology is very important for skill development of students and teachers. By connecting all the machines in the labs to the customized web page, everyone can do the tests from anywhere. In this research paper the efficiency of a transformer is determined using artificial intelligence. All types of meters in the circuit of the transformer are compatiblewith the Internet of Things. Thus the quantities displayed by measuring instruments can be measured from a distance. The load applied to the transformer can be increased or decreased as required. All these controls are automatically controlled by the controller. Here Q03UDE Modular controller is used to control the experimental setup and the readings are monitored in GOT2000 HMI. The readings are measured and tabulated from the remote environment via the Virtual environment.

Keywords : Online method of teaching, Remote access and control of machines, Q03UDEProgrammable Logic Controller, GOT2000 Human Machine Interface, Virtual environment.

ADVANCED PLANT DISEASE DETECTION USING RANDOM FOREST ALGORITHM

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ABSTRACT

The latest generation of machine learning algorithms has achieved impressive results in the field of image classification. This paper is concerned with a new approach to the development of plant disease recognition model, based on leaf image classification ,by the use of machine learning algorithm. Novel way of training and the methodology used facilitate a quick and easy system implementation in practice. The developed model is able to recognize different types of plant disease out of healthy leaves,with the ability to distinguish plant leaves from their surroundings. According to our knowledge ,this method for plant disease recognition has been proposed for the first time. All essentials steps required for implementing this disease recognition models. Random forest was used to perform the disease prediction. The experimental results on the developed Model achieved greater precision.

PARKINSON'S DISEASE DETECTION USING MODIFIED EFFICIENTNETB5 DEEP LEARNING MODEL FROM BRAIN MRI IMAGES

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ABSTRACT

Parkinson's disease, often referred to as Parkinson's, is a neurodegenerative disorder that primarily affects a person's movement. Parkinson's is characterized by a range of motor and non-motor symptoms, primarily caused by the gradual degeneration of nerve cells (neurons) in a part of the brain called the substantia nigra. Magnetic Resonance Imaging (MRI) is a valuable diagnostic tool used in medicine, capable of detecting atrophy or changes in specific brain regions, including the substantia nigra, which is often affected in Parkinson's. To enhance clinicians' decision-making abilities, a novel framework is proposed for Parkinson's detection using MRI samples obtained from the PPMI dataset. The proposed EfficientNetB5+ model with frozen layers is a modified version of the state-of-the-art EfficientNetB5 model which incorporates compound scaling method to scale up the network, making it more suitable for image classification and computer vision tasks. To further improve the performance of the pre-trained EfficientNetB5 model, specific blocks and layers were unfrozen for fine-tuning, and additional dense and dropout layers were added. The model's performance was evaluated using various metrics, including accuracy, precision, recall, F1-score, and ROC-AUC, comprehensively assessing its effectiveness for the given task. The proposed EfficientNetB5+ model with frozen layers achieved an impressive accuracy of 98.76%, precision of 99.24%, recall of 99.57%, and F1-score of 99.32%. This model will provide valuable assistance to clinicians in making critical decisions for planning treatment and disease management.

Keywords : Parkinson's disease, Brain MRI,

CXR IMAGE ANALYSIS AND CLASSIFICATION BASED ON CNN AND VGG16 FOR PNEUMONIA DETECTION

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ABSTRACT

Pneumonia, stemming from bacterial or viral infections, poses a significant health risk, particularly in developing and underprivileged regions where factors such as elevated pollution levels, unsanitary living conditions, overcrowding, and limited access to healthcare services are prevalent. Pneumonia can lead to pleural effusion, a condition characterized by the accumulation of fluid in the lungs, resulting in respiratory distress. The timely detection of pneumonia is essential for effective treatment and improved chances of survival. While chest X-ray (CXR) imaging remains the most widely employed method for pneumonia diagnosis, interpreting these X-rays presents a complex challenge and is susceptible to subjective variations. The method under consideration was trained and evaluated using a dataset comprising 5856 labeled images, which were obtained from a medical imaging challenge hosted on Kaggle, a platform known for its various medical imaging competitions. This research paper introduces an accelerated approach to pneumonia detection by employing a convolutional neural network (CNN). This CNN aids radiologists in diagnosing pneumonia by effectively discerning the presence of pneumonia in patients through the classification and analysis of chest X-rays. The VGG16 model introduced achieved superior F1-measure results compared to the state-of-the-art convolutional neural networks currently employed in medical image recognition. This confirms that data augmentation is a valuable technique for improving the precision of our model.

Keywords : Deep Convolutional Neural Network, VGG16, Pneumonia Detection, Medical Imaging

A NOVEL VALVE STICTION COMPENSATION METHOD

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ABSTRACT

The efficiency of the control circuit is restricted by friction in a control valve. This is the most typical issue with pneumatic control valves. It results in oscillations in the process variables and reduces the effectiveness of the control loop. A jammed valve can only be fixed permanently via repair and maintenance. However, this fact, requires that the control loop be cut off, which can only be done when the plant is shut down. It is helpful to compensate for its effects prior to sending the glued valve for repair. Adding pulse to the detuned controller's action for a predetermined amount of time resulted in a novel friction compensation approach that was created in this research.With the use of MATLAB Simulink software, the suggested friction compensation scheme's performance is assessed. A comparison was made between the suggested compensator's performance and that of other compensators found in the literature. All other compensations pale in comparison to the suggested compensation. A pilot plant's experimental installation used the suggested compensator in a level control loop. It has been discovered tobe useful in eliminating oscillations in process variables caused by valve friction. In addition, the suggested compensation plan is simple. Minimum process knowledge is needed.

A REVIEW ON IOT WITH BIG DATA ANALYTICS

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ABSTRACT

The Internet has played a crucial role in facilitating rapid growth in technology and communication, leading to a heightened interconnection among various machines and sensordriven devices. This interlinking of devices through the Internet has given rise to the concept known as the Internet of Things (IoT). A wide array ofwearable gadgets, such as smart watches, as well as household appliances like cars, washing machines, doors, door locks, and lights, are now seamlessly interconnected through the IoT. These sensor-based devices generate substantial volumes of data, commonly referred to as Big Data,daily. This data can be harnessed for analysis to address various everyday challenges. This research paper delves into diverse tools and techniques related to Big Data, which can be effectively employed within IoT frameworks. Furthermore, it outlines an approach to intelligently analyze datasets derived from IoT using Big Data methods. The paper elaborates extensively on different platforms for Big Data Analytics, providing insights into the most suitable options for IoT data applications.

Keywords: Internet of Things (IoT), Big Data, Analytics, Data intensive, Real time analytics, Digital data

DEVELOPMENT OF TEST RIG FOR EVALUATION OF PNEUMATIC SEED METERINGMECHANISM

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ABSTRACT

To develop a test rig for evaluation of pneumatic seed metering mechanism for black gram. The geometric mean diameter of the blackgram seed was observed as (3mm), the bulk density of blackgram seed was observed as (600 kg/m^3),the angle of repose of blackgram seed was observed as (24.2 deg), the thousand seed weight of blackgram seed was observed (40 g).The variables were chosen based on the review of literature and the effect of selected variables viz., speed of the Peripheralvelocity of seed disc S,(0.15, 0.2, 0.25 ms^{-1}),level of vacuum pressure P, (2.6, 3.9, 5.2 kPa), seed fall height H, (10, 20, 40 cm), and interaction of them were analyzed. A pneumatic seed metering mechanism designed to singulate the seed, including seed placement index (SPI), percentage of multiple hills, percentage of missing hills and uniformity of spacing was investigated under laboratory condition with the help of a test rig. Pneumatic seed metering mechanism for black gram seeding to overcome seed damage, seed loss, non-uniform distribution and create seed singulation. Scraper was used to overcome the suction pressure to scrape the seed from the seed metering disc. The maximum SPI (93.9 per cent) was obtained at peripheral velocityof disc (0.15 ms^{-1}), suction pressures (5.2 kPa) and height of seed fall in (10 cm). The percentage of miss, percentage of multiple and uniformity of the spacing was 3.03 per cent, 3.03 per cent, 85.42per cent respectively. The study demonstrated that blackgram could be seeding within an acceptable precisely range by pneumatic precision metering device.

Key words: Seed placement index(SPI), Degree (deg)

INTERNET OF THINGS – BASED PREDICTION AND MONITORING OF AIR POLLUTION

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ABSTRACT

Air pollution, which additionally has an applause on the nation's economy, is the arch account of aboriginal afterlife in all arising nations, including India. Urbanization has resulted in a cogent accident of assets in densely busy cities, including ecology pollution, cartage issues, and others. The abstraction of a smart, acceptable can be activated to ability management. Boundless ability accident will assuredly accomplish issues for the abutting generation, while boundless ability use after-effects in air pollution. Then, in adjustment to adviser air pollution, it is important to adumbrate it in advance. To assure our ecosystem from all alarming pollutants, ecology of air abuse through the Internet of Things is vital. Automobiles are the primary acumen for air pollution. Cycles and electric cartage can activated to abate air abuse instead of added cars. This abstraction shows that ciphering the bulk of air abuse is one adjustment via which bodies can change their advance of travelling.

Keywords: Air Pollution Forecast and intelligent, Sustainable traffic management inCities.

ADVANCED MACHINE LEARNING TECHNIQUES FOR ENHANCED ENERGY DEMAND FORECASTING AND OPTIMAL LOAD MANAGEMENT

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ABSTRACT

Machine learning (ML) proves instrumental in enhancing the effectiveness and durability of sustainable energy systems. A crucial aspect of its application lies in energy demand forecastingand load management. Energy demand forecasting entails predicting forthcoming energy consumption, while load management involves adjusting or minimizing energy demand to align with supply. ML algorithms play a pivotal role in crafting precise and dependable forecasting models, as well as in formulating load management strategies. These applications contribute to averting blackouts, cutting costs, and optimizing grid efficiency.In this research paper, a novel machine learning (ML) approach is introduced for energy demand forecasting and load management. The methodology suggests a fusion of three distinct ML algorithms: long short-term memory (LSTM) networks, support vector machines (SVMs), and random forests (RFs). The LSTM network is applied to capture prolonged temporal patterns withinthe energy demand data, while the SVM and RF algorithms are employed to comprehend the non-linear and intricate connections between energy demand and its diverse influencing factors.

Keywords: Energy demand for the future use and detecting, Machine learning, Algorith

REVITALIZING RURAL MOBILITY THROUGH GREEN TRANSPORTATION

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ABSTRACT

As the world faces increasing challenges related to environmental degradation and climatechange, the need to develop sustainable transportation systems becomes increasingly important. This brief provides a comprehensive review of green transportation solutions tailored to rural areas,where unique challenges and opportunities exist. This research examines innovative technologies,policies, and strategies aimed at reducing the environmental impact of transportation while meetingthe unique needs of rural areas.

Keywords: Green Transportation, Environmental Degradation, Climate Change.

RISING TIDE OF WASTE-THE GLOBAL CHALLENGE OF INADEQUATE WASTEMANAGEMENT IN EMERGING NATIONS

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ABSTRACT

pid population expansion is generating trash at a never-before-seen rate, particularly inemerging nations. For instance, between 2010 and 2018, the amount of waste generated worldwide each year only from waste electrical and electronic equipment (WEEE) grew from 33.8 million to 49.8 million tons. Even with incineration and other waste treatment methods, landfill disposal remains the predominant method of disposing of waste in developing nations. These nations typically lack the resources necessary for effective waste management, and there is a deficiency in the adoption of more sophisticated waste treatment technologies.

Keywords: Waste management, population, Electrical and electronic equipment and technology.

INTEGRATING MACHINE LEARNING ALGORITHMS FOR ACCURATE PREDICTIONSAND BROAD APPLICATIONS

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ABSTRACT

Weather forecasting is the skill of predicting the weather at a given location and time. It is a technological and scientific application. People can benefit more from weather forecasts because they anticipate potential changes in the weather. There are numerous approaches to creating a weather forecast, including gathering and analyzing data, processing images, and applying techniques like clustering, normalization, and cloud mask algorithms. The weather forecasting technique serves as the foundation for this essay. Support vector machine (SVM), time series based recurrent neural network, Random Forest, Naive Bayes, artificial neural network, and decision tree are some of the machine learning algorithms that this system will employ. Data on the current weather, including temperature, wind speed, and humidity, will be accepted by this system. It will forecast the local weather for a specific area on a specified day and time. Air traffic, maritime, agriculture, forestry, military, navy, etc. will all benefit from this technology.

Keywords: Accurate Prediction, Weather forecasting, Support Vector Machine, RandomForest.

ADVANCING ENVIRONMENTAL MONITORING: A STUDY ON INTELLIGENTINTERNET OF THINGS-BASED CONTROL TECHNOLOGY

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ABSTRACT

The rapid progression of technology has opened avenues for innovative solutions to addressglobal challenges, with environmental monitoring being a prime focus. This study delves into the incorporation of Intelligent Internet of Things (IoT) technologies into environmental monitoring systems, aiming to elevate the efficiency, accuracy, and responsiveness of control mechanisms. Theoverarching goal is to contribute to sustainable development through a comprehensive analysis of the potential benefits and challenges associated with implementing IoT-based control technology in environmental monitoring. The exploration encompasses the assessment of IoT integration, evaluating the feasibility and impact of incorporating IoT devices for real-time data collection, transmission, and analysis within environmental monitoring systems. Additionally, the study investigates the development and implementation of intelligent control algorithms that harness machine learning and artificial intelligence to optimize environmental parameters. Furthermore, emphasis is placed on analyzing the role of advanced data analytics techniques in extracting meaningful insights from extensive datasets generated by IoT sensors. This, in turn, facilitates informed decision-making for effective environmental management.

Keywords: IOT, Home Automation, ZigBee Technology, ESP8266 Wifi.

TOWARDS A SUSTAINABLE FUTURE: NAVIGATING THE PATH OF SUSTAINABLETRANSPORTATION

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ABSTRACT

The ability of future generations to meet their own needs is not compromised by a sustainable transportation system, which guarantees that present demands are satisfied. It is a system that benefits the environment and is both socially and economically feasible. Several advantages of sustainable transportation include: Sustainable transportation solutions have a less environmental effect because they produce fewer greenhouse gases and other pollutants, which can improve the quality of the air and water and slow down climate change. Better public health: Sustainable transportation options including walking, bicycling, and usingthe bus or train encourage physical exercise and can lower rates of obesity, heart disease, and other chronic diseases. Reduced social inequality: Sustainable transportation makes it feasible for individuals to get thetransportation they require regardless of their financial level, which can contribute to the development of a more egalitarian society. Public health is improved because sustainable transportation options like walking, bicycling, and public transportation encourage physical exercise and can lower rates of obesity, heart disease, and other chronic diseases. Economic benefits: Sustainable transport can boost economic growth by creating jobs in the transportation sector and reducing the costs associated with traffic congestion.

Keywords: Sustainable Transportation, Social Inequality, Environmental impact, Economic benefits and Better Public Health.

A COMPREHENSIVE REVIEW AND CATEGORIZATION OF RECYCLING, REUSE,AND REANUFACTURING IN SUPPLY CHAIN SUSTAINABILITY

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ABSTRACT

In this paper, a review of previous studies on supply chain research related to recycling, reusing, and re-manufacturing is presented. Additionally, it emphasizes the value of the review papers that have been published in this field. We use the reputable search engine SCOPUS to gather the sample, and to finalize the sample for the study, we screen it both descriptively and categorically. The 67 review works that were included in our final sample are examined in the context of the impact, category, and topic-related classification methods that have been constructed. There are three aspects to sustainability: social, economic, and environmental. Mostof the articles prioritize achieving sustainability for the benefit of society, cost-effective economic considerations, and environmental quality enhancement. In order to prioritize future research, the study identifies a number of emerging issues, such as sustainable smart and flexible production systems, methods of utilizing food and vegetable waste, methods of collecting rare earth metals from secondary sources, integration of reverse and forward supply chains, etc. Researchers may find it easier to identify knowledge gaps and produce future high-caliberresearch articles with the help of the categorization framework this article presents.

Keywords: Categorization of Recycling, Reuse, Remanufacturing and Supply Chain Sustainability.

ARCHITECTURAL INNOVATION FOR SUSTAINABLE LIVING: INTEGRATINGBUILDING DESIGN WITH ENERGY EFFICIENCY

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ABSTRACT

Modern architecture and building techniques place a high priority on the fusion of building design and energy efficiency. Architects, engineers, and politicians are putting more of an emphasis on designing buildings that not only meet functional and aesthetic criteria but also reduce energy consumption and environmental impact. This is because global energy demands are rising and environmental consciousness is growing. The symbiotic relationship between building design and energy efficiency is explored in this abstract, which also examines the ideas,methods, and tools that make it possible to construct energy-efficient structures In decreasing a building's energy footprint, it highlights the value of smart architectural design, material selection, insulation techniques,natural lighting, ventilation systems, and the incorporation of renewable energy sources. Furthermore, the abstract highlights the role of advanced technologiessuch as BuildingInformation Modeling (BIM) and simulation software, which empower architects and engineers to analyze and optimize energy performance throughout the design and construction phases.

Keywords: Energy efficiency, Building Design, Modern Architecture and Building Techniques.

EXPLORING THE LANDSCAPE OF ARTIFICIAL INTELLIGENCE IN DIGITALEDUCATION

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ABSTRACT

The development of formal reasoning by mathematicians and philosophers throughout historyled to the creation of programmable digital electronic computers. Figures like Alan Turing played a crucial role in this process. The goal of imitating or producing intelligence involves addressing specific attributes or skills that intelligent systems should possess, such as learning, reasoning, deduction, problem solving, and motion capture. Artificial intelligence has found applications in various industries, including robotics, law, science, medical diagnosis, stock trading, and even toys. Despite its widespread use, many applications of AI are not explicitly labeled as such, as they become integrated into everyday functions.The surge in data volume and the changing landscape of education, including digital education, have driven the widespread application of AI and machine learning techniques. This is particularly evident in online educational information systems, where substantial amounts of data about students are stored. The integration of artificial intelligence and machine learning in digitaleducation enhances various aspects.The study in question contributes in two significant ways. Firstly, it systematically reviews the literature using a reliable and impartial approach. Secondly, it distils and clarifies the key themesfound in the literature regarding the application of AI-based algorithms in digital education. Sixoverarching themes emerge from the findings, encompassing the use of deep learning and machine learning methods in topics such as intelligent tutors, performance and dropout predictions, adaptive and predictive learning, learning styles, analytics, and group-based learning. The synthesis of data indicates a prevalent use of algorithms for artificial neural networks and support vector machines, followed by those for random forests, decision trees, naive Bayes, and logistic regression across these identified themes.

Keywords: Intelligent tutors, dropout prevention, research review, artificial intelligence, machine learning, and performance prediction.

EFFICIENT LEAF DISEASE ANALYSIS USING DIGITAL IMAGE PROCESSING ANDCLASSIFICATION ALGORITHMS

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ABSTRACT

In this research, image processing techniques are utilized to detect plant leaf diseases. The primary goal is to utilize imageanalysis and classification methods to identify and classify these diseases. The outlined framework consists of four crucialphases: preprocessing images, segmenting leaves, utilizing K-means clustering to identify affected regions, and extractingfeatures. Statistical Gray-Level Co-Occurrence Matrix (GLCM) features are employed to extract texture characteristics, subsequently classified using a Support Vector Machine (SVM). This study indexes terms such as leaf diseases, classification, SVM, and K-means segmentation.

Keywords— Leaf Diseases, Classification, SVM and K-Means Segmentation.

OPTIMIZING FLOWER IMAGE CLASSIFICATION THROUGH TRANSFER LEARNING WITH MOBILENETV2: A COMPREHENSIVE STUDY AND FUTUREDIRECTIONS

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ABSTRACT

This paper investigates the application of transfer learning using a pre-trained MobileNetV2 model for flower image classification. The initial attempt, utilizing MobileNetV2 without its top classification layer, revealed limitations in achieving effective flower classification. Subsequently, a transfer learning approach was employed, involving retraining on a flower dataset. The adapted model, comprising the pre-trained MobileNetV2 layers and a task-specific Dense layer, underwent training and evaluation. The results demonstrated a notable improvement in accuracy, achieving 88.82% on a test set, with a corresponding loss of 0.3503. This underscores the efficacy of transfer learning in optimizing model performance for flower classification tasks, providing valuable insights for researchers and practitioners. The study contributes to the understanding of practical strategies for leveraging pre-trained models and offers a foundation for future enhancements and applicationsin image classification domains.

Keywords: Transfer Learning, MobileNet V2, Image Classification, Pretrained**.**

INNOVATIVE VEHICLE SPEED DETECTION SYSTEM: INTEGRATING IRSENSORS AND ESP32 CAMERA FOR ENHANCED ROAD SAFETY

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ABSTRACT

This Road accidents have become a major concern worldwide, with excessive speedingbeing a significant contributing factor. To address this issue, an effective vehicle speed detection system is crucial to monitor and regulate traffic flow, enhancing road safety. This paper proposes a novel approach to vehicle speed detection employing a combination of infrared (IR) sensors and an ESP32 camera. The system utilizes two IR sensors placed at a known distance apart to measure the time it takes for a vehicle to traverse the defined interval.By calculating the time interval and the known distance, the vehicle's speed is determined. Additionally, the ESP32 camera captures an image of the speeding vehicle, providing visual evidence for further action. This integrated system offers a comprehensive solution for real- time vehicle speed monitoring and enforcement. The proposed system is cost-effective, easy to implement, and reliable, making it a promising solution for enhancing road safety.

Keywords : Vehicle, Speed Detection, IR sensors, ESP32, Road Safety.

MACHINE LEARNING-POWERED LIFESTYLE PREDICTION THROUGH ANINTERACTIVE WEB APPLICATION

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ABSTRACT

This is a ML based web application built to predict the lifestyle of the people. This comes under supervised learning method. Linear regression is the algorithm used to train the model. A dataset collected from the Kaggle website is pre-processed and a model is trained and tested. The ML model is executed in the Jupyter notebook and the output is verified. Thena webpage for the user's interface is designed using HTML and CSS, the user interface collectsthe inputs from the user's and transfer it to the machine model for analyzing and then return itsoutput to the user interface page itself. Thus, the prediction model built will predict the lifestylebalance score. Flask framework is used as database in this lifestyle prediction web application.

Keywords: Life style prediction web App, Linear Regression algorithm**.**

COMPARATIVE ANALYSIS OF MACHINE LEARNING ALGORITHMS FOR EARTHQUAKE MAGNITUDE MODELING: A COMPREHENSIVE STUDY ONPREDICTIVE ACCURACY

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ABSTRACT

Natural calamities like earthquakes have the potential to inflict great harm and fatalities.For the purpose of creating early warning systems, disaster planning, risk assessment, and scientific study, accurate earthquake prediction is crucial. This paper uses a variety of machinelearning models to forecast the size and likelihood of an earthquake happening in a certain location (California, United States) based on historical data from that region. Based on the outcomes, we can say that, out of all the models we considered, random forest is the most accurate model for estimating the size of an earthquake.

Keywords—Random Forest, Linear Regression, Naïve Bayes, Machine Learning, Disaster, Earthquakes.

AN HYBRID CNN ALGORITHM FOR IMAGE CLASSIFICATION USING REMOTE SENSING

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ABSTRACT

Remote sensing image analysis, particularly classification using Convolutional Neural Networks (CNNs), stands as a crucial task. CNNs have shown immense promise in effectively classifying such images by generating features with strong generalization capabilities. Consequently, subsequent classifiers often yield favorable outcomes without extensive fine-tuning. This paper introduces a hybrid CNN-SVM model for classifying three distinct remote sensing categories datasets: hyperspectral images, multispectral images of remote sensing, and synthetic aperture radar (SAR) data. Our experiments demonstrate that the novel outline completes the outstanding performance for classification across overall datasets, affirming its efficacy.

Keywords: Remote Sensing, Convolutional Neural Networks (Cnns), Hyperspectral Remote Sensing Images, and Multispectral Images (MSI).

SMART CHARGING GUARDIAN: ARDUINO-POWERED CONTROLLER FOROPTIMAL SMARTPHONE BATTERY HEALTH

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ABSTRACT

It's a common problem for almost all mobile phone users, whether they have a high- end smartphone or a basic feature phone: they forget to plug in their phone while it's charging.However, the majority of contemporary mobile phone charge controllers are quite sophisticatedand can identify when your battery is fully charged and cut off the power supply (albeit they don't really cut off; instead, they retain the device in a charging condition known as trickle charge).The amount of charge cycles or times a battery can be chargethat any battery can haveis limited .It affects how long the battery lasts. One major factor is temperature. This Arduino-based smartphone charging controller is therefore necessary to prevent trickle charging. The Arduino-based smartphone charging controller has a pretty straightforward basic idea. Decidehow long you want to leave your phone charging. After the allotted time has elapsed, disconnect the charger's power source. With the aid of a relay, the charger's power is turned on, and the timer starts. **Keywords—**Mobile Phone, Arduino, Battery, Temperature

SATELLITE NETWORK AND TECHNOLOGY

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ABSTRACT

Earth observation is an important activity to obtain information about the earth's surface and is very important in military, economic, geological and other fields. Imagery satellites have become a crucial part of observing the earth due to their good location. But today's needs to observe the world have become increasingly complex. Therefore, it would be difficult, if not impossible, to use satellites to complement imaging projects resulting from an Earth observation mission. Therefore, the evolution of satellite network technology and remote imaging systems will solve this problem. This article presents several methods for satellite communications and research focusing on remote imaging systems. Then describe the processes and procedures used in the project. Finally, some future research directions for this technology are highlighted.

Keywords— Remote Sensing Technology, Remote Sensing, Satellite Networking.

A SMART APPROACH TO PREVENT DRUNK DRIVING INCIDENTS WITH IOTBASED ALCOHOL DETECTION SYSTEM

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ABSTRACT

Drinking is not only injurious to health, but also it is injurious to our society. The aim of the paper is to safeguard the human life from accidents due to drunk and drive. Nowadays number of the drunk and drive cases and the road accidents are increased in the great extent. Drunk and driving become a major factor for more number of accidents on the road. In this paper we have used the Arduino UNO Microcontroller, MQ3 alcohol sensor which will helpful in detecting the alcoholic nature of human, DC motor which will act as an engine. On average, the country witnesses 1,264 road accidents and 462 deaths every day — that is 53 crashes and 19 deaths every hour, according to India's latest Road Accidents report. In order to overcome the problem the alcohol detection and engine locking system has been introduced. If the rider is drunken, thenthe IOT sensor act as a tool and make the vehicle not to move further to prevent accident free environment.

Keywords: Alcohol detection, MQ3 alcohol sensor, Arduino uno.

AN ANALYSIS ON WASTE MANAGEMENT CHALLENGES IN URBANENVIRONMENT USING ARTIFICIAL INTELLIGENCE.

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ABSTRACT

Due to the increasing amount of rubbish created worldwide, a novel approach, such asthe use of artificial intelligence, is required to enhance waste ecology. This involves contamination, waste management, and recycling. Waste-to-energy, smart bins, trash-sorting robots, waste generation models, waste monitoring and locating, resource recovery, logistics, plastic pyrolysis, identification of fossil and modern materials, disposal, smart cities, cost- cutting measures, and public health improvement are all examples of how artificial intelligenceis being used. When it comes to waste logistics, artificial intelligence may save up to 28.22% in time and money, as well as 36.8% in journey distance. Artificial Intelligence with an accuracy range from 72.8 to 99.95%, intelligence enables waste to be identified and sorted. Because to the exceptionally rapid rates of urbanization over the last 50 years, cities will housenearly two-thirds of the world's population by 2050. Meanwhile, as technology advances at a rapid pace, cities are becoming intelligent like everything else. The urban infrastructure is under environmental pressure in tandem with these developments. Among these pressures, waste creation is one of the most significant. The place of garbage collection in metropolitan environments and cities is rising quickly, necessitating a closer examination. It is now possible to improve waste management and boost recycling rates. Applications for managing the Internet of Things (IOT) and Artificial Intelligence (AI).

Keywords—Artificial Intelligence, Waste Management, Urban environment**.**

ECO-CONSICOUS WASTE MANAGEMENT

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ABSTRACT

In the twenty-first century, the global focus on environmental safety and human health underscores the urgency of effective waste management. This comprehensive review addresses various facets of waste management, emphasizing the need for heightened societal awareness to minimize waste generation. The first segment delves into the challenges and trends of electronic waste (e-waste) in India and globally, highlighting the hazardous consequences of improper disposal. The second segment explores the escalating generation of electronic waste in India, with a specific focus on computer equipment and mobile phones. Lastly, the third segment broadens the scope to encompass solid waste management (SWM), emphasizing the importance of managing diverse waste streams, including municipal solid waste (MSW), radioactive solid waste (RSW), hospital solid waste (HSW), and agriculture solid waste (ASW). As e-waste becomes a global concern, particularly in India, where recycling practices arein their infancy, the need for sustainable solutions is evident. The paper advocates for comprehensive e-waste recycling programs, increased public awareness, and responsible disposal practices to mitigate environmental and health hazards. In parallel, the review underscores the challenges posed by diverse types of solid wastes,such as MSW, RSW, HSW, and ASW. It discusses the growing volume of solid waste and the necessity for proper SWM methods to minimize both the quantity and environmental impact. The diverse SWM techniques, from conventional approaches to modern methods like refuse-derived fuel (RDF), pyrolysis, and incineration, are examined, considering their respective advantages and limitations. By combining these perspectives, this review aims to contribute to the broader discourseon holistic and sustainable waste management practices, recognizing the interconnected challenges and opportunities in addressing the complexities of waste in the twenty-first century.

Keywords: Electronic waste, E-waste management, Solid waste management, Municipal solid waste, Radioactive solid waste, Hospital solid waste, Agriculture solid waste, Refuse-derived fuel, Pyrolysis, Incineration, Sustainable solutions.

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HARVEST TO PLATE: UNVEILING THE PATH OF FOODAND AGRICULTURE

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ABSTRACT

"Harvest to Plate: Unveiling the Path of Food and Agriculture" explores the intricate journey that food takes from its origins in agriculture to its placement on our plates. Food consumption transcends mere sustenance; it encompasses pleasure, nostalgia, and cultural connections. In today's globalized world, the availability of diversefoods year-round raises questions about the origins and sustainability of this convenience. This exploration delves into the complexities of food production and distribution, acknowledging the far-reaching impact of increased demand on agricultural practices. The extensive processing and transportation of vegetables, fruits, and meats raise concerns about environmental sustainability, the quality of food, and the potential implications of preservatives and pesticides. Amidst these challenges, the paper contemplates solutions to mitigate environmentalimpact while maintaining food quality. It emphasizes the importance of sustainable agricultural practices, local sourcing, consumer education, technological advancements, and policy interventions. The aim is to foster a more sustainable and conscientious approach to food production and consumption, ensuring a healthier and environmentally responsible journey from harvest to plate.

Keywords- Harvest To Plate, Global Food Challenges, Environmental Changes In Agriculture.

ASSESSMENT OF CLIMATE-RELATED RISKS AND STRATEGIES FOR ADAPTATION

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ABSTRACT

This paper conducts a comprehensive assessment of climate-related risks and proposes adaptive strategies to address thechallenges arising from a changing climate. Utilizing a multidisciplinary approach, the study integrates scientific projections, sector-specific vulnerabilities, and temporal considerations to identify key findings. The interconnected nature of climate risks is explored, emphasizing the necessity for tailored, sector-specific adaptation approaches. The assessment incorporates industry best practices, aligning with established standards, and advocates for the development of adaptive pathways for flexible and phased implementation. Social equity considerations are highlighted, emphasizingthe ethical dimension of climate adaptation. The paper concludes with insights into the continuous monitoring and reviewframework, recognizing the dynamic nature of climate science. The findings contribute to a nuanced understanding of climate risks and provide a foundation for informed decision-making, resilience-building, and equitable adaptation in theface of an evolving climate.

Keywords— Climate related risk, Adaptive strategies, Multi disciplinary approach, Continiuous monitoring, Resilience-building, Equitable adaptation**.**

SMART TRANSPORTATION: ANTICIPATING THE FUTURE WITH PREDICTIVEMAINTENANCE AND ENHANCED SAFETY MEASURES

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ABSTRACT

The predictive technique for road safety is a novel strategy based on a sophisticated statistical-analytical process that generates an estimate of the predicate fluctuation in the quantity of incidents. The American environment is the reason behind the advancement of the HSM predictive approach, which Trying to moveit somewhere raises a few questions. The writers attempted to use this strategy in an urban setting typical of Middle-sized cities in Europe are very different from those in America. The model's parameter values were slightly altered in light of the particular circumstances and availability, but the manual's statistical models remained unchanged. The outcomes using the altered structure revealed a little divergence from theactual observed data linked to traffic incidents that happened inside the research region throughout the three-year assessment period (2014-2015-2016). Since there were no collision data sufficient to validate the process, more investigation and testing would be necessary to evaluate the suggested modification, taking into account additional crashes and other websites. Guarantee the utmost safety standards for every user.Because it offers practical instruments for managing road safety, the Highway Safety Manual (HSM) is theprimary source of information on a worldwide scale.

Keywords: Equipment, reliability, maintenance, management, KMR.

AUTONOMOUS VEHICLE AND AI: ADVANCEMENTS AND CHALLENGES

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ABSTRACT

The process of converting normal, conventional automobiles into autonomous vehicles—also referred to as "driverless cars"—as well as any associated problems, requirements, and expected outcomes will all be covered in this essay. Additionally, it will discuss standards and provide a detailed analysis of the differences between conventional and driverless cars. We will investigate and analyze the different effects on society, ethical and legal issues, and most crucially environmental limits because this AI-based car will significantly alter people's lives. Research on earlier, comparable technologies will also be done, and we'll look at how scientists are attempting to advance this technology in the future. **Keywords:** Challenges, Applications, Self-Driving Cars, IoT-Internet of Things.

GREEN TRANSPORTATION: DEVELOPMENT OPPORTUNITIES IN SUPPORT OFSUSTAINABLE TRANSPORTATION

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ABSTRACT

This study analyzes scientific publications on green transportation, focusing on its relevance to sustainable transportation. The analysis uses a qualitative approach and literature review using VOSviewer. Results show an increased trending green transportation publications, with new constructsemerging in areas like supply chain, warehousing, logistics, manufacturing, packaging, infrastructure, economy, marketing,cleanenergy,emissionreduction,newenergyvehicls,and green cities. Then overly of the deconstructs needs further research and technology development tosupport sustainable development.

Keywords: Green transportation, PRISMA, utilizing, sustainable.

CLIMATE CHANGE EFFECTS ON HEATWAVE

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ABSTRACT

Concerns for the health and safety of working populations have grown as a result of climate change'songoing rise in global temperatures and the frequency of heat waves throughout the world. Due to the physically demanding nature of their jobs, which are mostly conducted outside in unfavourable conditions, workers in the food production chain—farmers in particular—are particularly susceptible to heat stress. A scoping review was conducted at the intersection of farm workers' health and climatechange to compile the body of knowledge about the health effects of heat stress and climate change,direct future research to enhance comprehension of present and future climate change hazards, and guide the development of policies to safeguard agricultural workers' health and safety. Five internet resources and websites devoted to gray literature were thoroughly searched.

Keywords: Heat Waves, human health, climate change, regional climate models.

SMART WASTE MANAGEMENT SYSTEM UTILIZING INTERNET OF THINGS (IOT)

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ABSTRACT

The paper is cantered on the concept of automation in waste management systems, specifically addressing issues of waste disposal in open spaces prevalent in poorer nations, leading to environmental degradation and unhygienic conditions. The "smart netbin" concept proposes a solution where users can access free internet resources by connecting to a Wi-Fi system integrated into a regular trash can. This involves a combination of hardware and software technologies, including measuring the quantity of garbage, tracking its movement, and connecting users to the Wi-Fi system. By incentivizing users to maintain a clean environment, this technology aims to effectively manage garbage in communities. The proposed system operates on a client-server architecture, promoting a healthy environment, pollution-free society, and overall well-being.

Keywords: Challenges, Applications, and Big Data for Artificial Intelligence, Self-Driving Cars, IoT-Internet of Things.

SMART TRAFFIC MANAGEMENT SYSTEM FOR METROPOLITAN CITY USING CUTTING EDGETECHNOLOGY

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ABSTRACT

People are drawn to cities by the appeal of urban environments, which is propelled by technological improvements. This leads to a notable spike in traffic during peak hours. This makes the already complicated traffic situation worse, leading to resource depletion, delays, and inefficiencies. Like many other major cities, Riyadh, Saudi Arabia, struggles with chronic traffic jams during business hours. The current traffic management system has made several attempts to reduce congestion, but the problem has not been sufficiently addressed. The vast amount of data gathered by traffic sensors needs to be appropriately kept and used in conjunction with cutting-edge technology in order to manage traffic congestion. To address this traffic-related issue, an advanced traffic management system architecture that integrates modern technologies like cloud computing and the Internet of Things (loT) is essential.

Keywords: Smart City, Traffic Management, Video Monitoring, Signal System.

A NOVEL PEDESTRIAN DETECTION USING IMPROVED MULTI-KERNEL CONVOLUTIONAL NEURAL NETWORK

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ABSTRACT

Pedestrian detection is a challenging task in computer vision with diverse applications such as autonomous driving and surveillance. Pedestrian detection result is enhanced by introducing approach using the Firefly Algorithm (FA) for Multikernel Convolutional Neural Network (MCNN) to select the kernel sizes. Penn-Fudan Pedestrian Database has been used for experimentation by training and testing. MCNN classifier comprises multiple Convolutional layers with different kernel sizes, designed to capture distinct features. The FA selects the optimal kernel sizes for each layer, thus enhancing the performance of the MCNN. Penn-Fudan Pedestrian Database and the results show that improved MCNN achieved an outstanding F1-score of 97.70% when compared to existing methods. The result of proposed approach is potential in autonomous driving and surveillance applications.

Keywords: Firefly Algorithm (FA), Multikernel Convolutional Neural Network (MCNN), Penn-Fudan Pedestrian Database, and Pedestrian Detection.

FOOD AND AGRICULTURAL SECURITY: AN INTRODUCTION TO THE SPECIAL ISSUE

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ABSTRACT

Particularly in developing nations, food and agricultural security are critical components of sustainable development. This is due to the fact that while food security is a crucial sign of economic success, agricultural advancement is essential to the structural transformation of developing economies. In fact, the Sustainable Development Goals (SDGs) of the United Nations acknowledge that food security and agricultural security are inextricably tied to each other throughout the development process. There is a very strong connection between agricultural security and food. Only two significant aspects are attempted to be highlighted in this special issue: (a) resilience's function in reducing shocks' effects on food and agricultural security and (b) the particular difficulties encountered in developing sustainable agriculture and analyzing best practices. The subject matter of the other nine articles in this special issue is very diverse and includes topics such as (a) forced displacement and agriculture; resilience and conflict; shocks and structural transformation in sub-Saharan African (SSA) countries; and (b) public perceptions of good agricultural practices, environmental impacts of alternate crops, gender issues in agroforestry systems, and food system transformation. When taken as a whole, these articles demonstrate the connection between resilience, environmental sustainability, and food and farm security.

Keywords: shocks; resilience; food security; agriculture; sustainability

IMAGE ENHANCEMENT TECHNIQUES

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ABSTRACT

Digital image processing utilizes diverse enhancement techniques to elevate image quality in applications such as medical imaging and computer vision. In the spatial domain, methods like histogram equalization and spatial filtering directly enhance pixel values. Frequency domain techniques, such as Fourier and wavelet transforms, operate in the frequency domain, facilitating denoising and feature enhancement. Advanced strategies like image fusion and super-resolution contribute to comprehensive image improvement. Adaptive enhancement techniques, integrating neural networks and machine learning, provide context-aware enhancements. The choice of a technique is contingent on image characteristics and specific application needs. Ongoing technological progress is anticipated to introduce more sophisticated enhancement methods, continually refining the capabilities of digital image processing.

Keywords: Filters, Image Enhancement, Enhancement Methods, Types of Noise

SAFE ZONE:REAL-TIME VIDEO ANALYTICS FOR INDUSTRIAL SAFETY

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ABSTRACT

Real-time video analytics for industrial safety is a crucial application of artificial intelligence and computer vision technologies in industrial settings. It involves the use of cameras and advanced software to monitor and analyze video feeds in real-time, with the primary goal of ensuring the safety of workers, preventing accidents, and enhancing overall operational efficiency

AUTONOMOUS VEHICLE AND AI: ADVANCEMENTS ANDCHALLENGES

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ABSTRACT

Vehicles powered by despite these difficulties, autonomous vehicles have a promising future. Autonomous vehicles have the potential to revolutionize transportation, and improvements in digital image processing and artificial intelligence are constantly pushing the envelope of whatis achievable. Internal combustion engines were used in the 10 creation of production automobiles. Even today, advancements in internal combustion technology are still being made. However, electric vehicles are 11 gradually gaining acceptance in larger picture. Technology for driverless vehicles is also advancing quickly. Even so there despite the impressive advances made in this area, considerable work remains. Taking up The use of driverless vehicles offers many advantages.Autonomous vehicle businesses have invested significant resources are being invested in the development of autonomous vehicle technology, with the to completely market the technology.

Keywords: Autonomous Driving; Technology Development; Safety; Reliability; Feasibility

REVOLUTIONIZING WASTE MANAGEMENT: STRATEGIESFOR A SUSTAINABLE AND HEALTHY FUTURE

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ABSTRACT

In a world drowning in waste, the global impact of trash production is undeniable, causing environmental and health hazards. The World Health Organization reports a staggering 4.2 million annual deaths due to outdoor air pollution, a consequence of insufficient waste management. This paper proposes immediate waste utilization strategies for scientists to champion a green and healthyplanet. The core focus lies in rethinking how we handle garbage to pave the way for a sustainable future. **Keywords:** Green technology, Waste management, Circular economy, Technological innovation

PREDICTIVE MAINTENANCE AND SAFETY MEASURES INRAILWAY TRANSPORTATION – A SURVEY

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ABSTRACT

This article is a survey of the different articles which predicts the maintenance process andsafety measures in the railway transportation. Predictive maintenance (PdM) is a maintenance strategy that uses data analysis to predict when equipment is likely to fail. This allows railway companies to schedule maintenance interventions before failures occur, which can improve safety,reliability, and efficiency. PdM can be applied to a wide range of railway assets, including rolling stock, infrastructure, and signalling systems. The efficient and safe operation of railway transportation systems is paramount for both passenger and freight services. This research paper explores the synergies between predictive maintenance and safety measures in the context of railway transportation. To improve reliability and reduce downtime, predictive maintenance techniques, including condition-based monitoring and machine learning applications, are investigated. Simultaneously, a comprehensive analysis of safety management systems, risk assessment, and advanced signalling technologies is conducted to enhance overall safety. The paper reviews recent advancements in predictive maintenance and safety methodologies, emphasizing the role of data analytics in anticipating and preventing rail equipment failures. Furthermore, it delves into the intricacies of safety protocols, addressing challenges posed by human factors and proposing integrated approaches for proactive risk mitigation. The railway industry is highly regulated. This means that any new technologies need to be carefully evaluated and approved before they can be deployed. This can slow down the adoption of new technologies,such as PdM. Despite the challenges, PdM has the potential to significantly improve the safety and reliability of railway transportation. By detecting potential problems early on, PdM can helpto prevent accidents and disruptions to service. This can lead to significant cost savings and benefits for passengers and freight operators.

Keywords: Condition-Based Maintenance; predictive maintenance; machine learning; deep learning; artificialintelligence; railway industry

BETALAINS – pH INDICATOR BIOPOLYMER PATCH IN THE DETECTION OF MEATSPOILAGE

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ABSTRACT

The primary objective of this work is to extract betalains from the beet stem through direct use it as dye for indicating the meat spoilage through pH responsive film. This study aims to develop active andintelligent packaging films based on chitosan/agar agar incorporated with betalains- Beet Root (Beta vulgaris) stem extract. The microstructure, physical and functional properties of the films with different contents of the extract (0.25, 0.50 and 1.00 wt% on chitosan) were measured. Results showed betacyaninswere the main components in the extract, which presented significant color changes under alkaline conditions. Scanning electron microscopy observation revealed the compactness of the films was improved by the extract addition. Fourier transform infrared spectroscopy revealed that betacyanins in theextract could interact chitosan and agar through hydrogen bonds. The incorporation of the extract enhanced the water vapor barrier and ultraviolet–visible light barrier ability, and mechanical, antioxidant and antimicrobial potential of the films. The film containing 1.00 wt% of the extract was more sensitiveto ammonia than other films. When applied to monitor the freshness of chicken, the film containing 1.00 wt% of the extract presented visible color changes due to the accumulated volatile nitrogen compounds during the spoiling process of chicken. Our results suggest the film containing 1.00 wt% of the extract canbe used as active and intelligent packaging in food industry.

Keywords : Food Spoilage, pH Detection, Meat Spoilage, Betalins

ENHANCING THE COST OF PENALTY ON AIRPLANE LANDING PROBLEMS WITHSIMULATED INTELLIGENCE TECHNIQUE

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ABSTRACT

The paper deals with determining the landing time for each aircraft within the radar range of the airport and allocating it to a runway. The technique describes the execution time and penalty cost of each aircraft. The airports need to improve their efficiency. Building new airports isn't a solution. Reducing thenumber of late aircraft, maximizing the airport capacity, decreasing the number of air traffic controllers, and decreasing air pollution and fuel consumption are some of the benefits of optimum aircraft scheduling. The goal is to get an optimal schedule for a sequence of aircraft that can use at least one runway. The constraints are related to the earliest and latest landing time. The objective is to minimize thecost of penalties by scheduling the aircraft and assigning them to available runways. The congestion in the runway can be eliminated with a Particle swarm. Our method has a low execution time due to a modified model strategy and provides close-optimal results. Numerical experiments proved to reduce penalty costs.

Keywords: aircraft, PSO, OPSO, OPSOCM, landing time, cost of penalty

EXPLORING THE LANDSCAPE OF ARTIFICIAL INTELLIGENCE IN DIGITAL EDUCATION

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ABSTRACT

The development of formal reasoning by mathematicians and philosophers throughout historyed to the creation of programmable digital electronic computers. Figures like Alan Turing played a crucial role in this process. The goal of imitating or producing intelligence involves addressing specific attributes or skills that intelligent systems should possess, such as learning,reasoning, deduction, problem solving, and motion capture.Artificial intelligence has found applications in various industries, including robotics, law, science, medical diagnosis, stock trading, and even toys. Despite its widespread use, many applications of AI are not explicitly labeled as such, as they become integrated into everydayfunctions.

The surge in data volume and the changing landscape of education, including digital education, have driven the widespread application of AI and machine learning techniques. This is particularly evident in online educational information systems, where substantial amounts of data about students are stored. The integration of artificial intelligence and machine learning in digitaleducation enhances various aspects.The study in question contributes in two significant ways. Firstly, it systematically reviews the literature using a reliable and impartial approach. Secondly, it distils and clarifies the key themesfound in the literature regarding the application of AI-based algorithms in digital education. Sixoverarching themes emerge from the findings, encompassing the use of deep learning and machine learning methods in topics such as intelligent tutors, performance and dropout predictions, adaptive and predictive learning, learning styles, analytics, and group-based learning. The synthesis of data indicates a prevalent use of algorithms for artificial neural networks and support vector machines, followed by those for random forests, decision trees, naive Bayes, and logistic regression across these identified themes.

Keywords: Intelligent tutors, dropout prevention, research review, artificial intelligence,machine learning, and performance prediction.

IMPLEMENTATION OF A WIRELESS SENSOR NETWORK NODE AND EMBEDDED WEB SERVER IN AN AGRICULTURAL WEATHER MONITORING SYSTEM

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ABSTRACT

The basic foundation of human beings is seen as agriculture, as it is the fundamental foundation of human existence. Agriculture is viewed as an essential food source and is the primary source of survival. The development of the economic situation of the country requires growth in the agricultural sector. Sadly, a lot of farmers rely on traditional farming methods that lead to the lowest crop yields. Wireless Sensor Network (WSN) will become a frequent use in various sectors, especially in agriculture. Traditional methodologies are being replaced by automation due to technological advances caused by the invention of the Internet of Things (IoT). Wireless Sensor Network (WSN) is utilized by our project to process information about environmental conditions, but it cannot control the environment, but it is used to process the information about environmental conditions.

Keywords: DHT, WSN, IoT, GIS, GPS, LDR, Arduino.

IOT BASED SMART WATER MANAGEMENT FOR RESIDENTIAL

IOT BASED SMART WATER MANAGEMENT FOR RESIDENTIALS

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ABSTRACT

Water is an essential thing in our day- to-day life. Without water the whole day gets disturbed. If people fail to store water, their personal and household activities can't be done. People require effective water management to prevent water loss and contribute to water conservation. Only 0.08% of the planet's freshwater, which makes up only 3% of total freshwater, is available to humans for domestic and drinking use. Unwanted water usage is a big concern for society. As a result, we looked for a solution and are now deploying an IoT-based smart water management system for residences. The objective is to monitor and manage the supply water flow for residents. The system, which comprises of numerous sensors, measures the water level and can detect leaks as well as water inflow. The Arduino controller will control the operation of sensors and process the obtained values from the sensors. The collected data is obtained by the ESP8266 Module and can be finally seen online. LCD is used to display the observations. It focuses on minimising the amount of effort and time required anytime a person needs to start or stop the flow of water at a pipeline.

Keywords: Internet of Things (IoT), Arduino controller, Water Management

LOAD FREQUENCY CONTROL OF INTERCONNECTED WIND-THERMAL POWER PLANT WITH FUZZY LOGIC CONTROLLER

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Abstract

Load frequency control (LFC) has recently gained importance due to the increasing integration of wind energy in contemporary power systems. Hence, several power system models, control techniques, and controllers have been developed to improve the efficiency, resilience, flexibility, and economic feasibility of LFC. A number of modern control techniques are adopted to implement a reliable stabilizing controller. An attempt has been undertaken aiming at investigating the load frequency control problem in a power system consisting of thermal-wind multi area power generation unit by the use of optimization technique. In this proposed scheme, control methodology developed using conventional controller, for two-area interconnected thermal-wind power system. In this research, area-1 consists of thermal reheat power plant whereas area-2 consists of wind power plant. Further in this scheme, the combination of most complicated system like generation rate constraint, governor dead band with reheat turbine are interconnected in thermal power plant. The performances of the controllers are simulated using MATLAB/SIMULINK package. The robustness and reliability of the various control schemes is examined through simulations.

Keywords—Load Frequency Control, Super Conducting Magnetic Energy Storage, Ziegler Nichols, Fuzzy logic Controller

SMART SEED SOWING MACHINE USING ZERO TILL FARMING

SMART SEED SOWING MACHINE USING ZERO TILL FARMING

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ABSTRACT

For a very long time to come agriculture will continue to be the foundation of the Indian economy. The agriculture sector is expanding quickly to fulfil future food needs. The most crucial step in farming is sowing. It is a labor-intensive process that takes a long time and a lot of human work. The fundamental criterion for a sowing machine is that it be suitable for all farms, all kinds of crops, have a sturdy build, and be trustworthy. Therefore, the created a sowing machine that is manually operated but decreases the effort of formers, boosting the efficiency of planting and decreasing the issues with manual planting. Before creating a new process or product, it is crucial to take into account the behavior of the new technology that utilized in order to make it economically feasible, as well as its impact on society. A seed-sowing device that enables farmers to collect the best produce with the least amount of work has been developed in this work. A Solar Operated Automatic Seed and Fertilizer Sowing Machine Using Zero Till Farming is designed and constructed. The mechanical aid for sowing operations that is managed by an Arduino Mega microcontroller.

Keywords : Seed sowing, agricultural, fertilizers, spacing, machineries, sowing method

INTERNET OF THINGS-BASED PREDICTION AND MONITORING OF AIR POLLUTION

INTERNET OF THINGS – BASED PREDICTION AND MONITORING OF AIR POLLUTION

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ABSTRACT

Air pollution, which additionally has an applause on the nation's economy, is the arch account of aboriginal afterlife in all arising nations, including India. Urbanization has resulted in a cogent accident of assets in densely busy cities, including ecology pollution, cartage issues, and others. The abstraction of a smart, acceptable can be activated to ability management. Boundless ability accident will assuredly accomplish issues for the abutting generation, while boundless ability use after-effects in air pollution. Then, in adjustment to adviser air pollution, it is important to adumbrate it in advance. To assure our ecosystem from all alarming pollutants, ecology of air abuse through the Internet of Things is vital. Automobiles are the primary acumen for air pollution.Cycles and electric cartage can activated to abate air abuse instead of added cars. This abstraction shows that ciphering the bulk of air abuse is one adjustment via which bodies can change their advance of travelling.

Keywords: Air Pollution Forecast and intelligent, Sustainable traffic management inCities.

AUTONOMOUS VEHICLE AND AI: ADVANCEMENTS AND CHALLENGES

AUTONOMOUS VEHICLE AND AI: ADVANCEMENTS AND CHALLENGES

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ABSTRACT

The process of converting normal, conventional automobiles into autonomous vehicles—also referred to as "driverless cars"—as well as any associated problems, requirements, and expected outcomes will all be covered in this essay. Additionally, it will discuss standards and provide a detailed analysis of the differences between conventional and driverless cars. We will investigate andanalyze the different effects on society, ethical and legal issues, and most crucially environmental limits because this AI-based car will significantly alter people's lives. Research on earlier, comparabletechnologies will also be done, and we'll look at how scientists are attempting to advance this technology in the future.

Keywords: Challenges, Applications, Self-Driving Cars, IoT-Internet of Things.

PREDICTION OF DEATH CAUSES BY SWARM INTELLIGENCE AND SUPPORT VECTOR MACHINE (SVM) FROM THE X-RAY IMAGES.

PREDICTION OF DEATH CAUSES BY SWARM INTELLIGENCE AND SUPPORT VECTOR MACHINE (SVM) FROM THE X-RAY IMAGES

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ABSTRACT

The identification of the type of death may be very difficult when the case has been in court for a long time to resolve the mystery of death. The only way to predict death is by examining the features of the images from the chest x-rays. This paper proposes an interesting approach to automate the analysis of chest X-ray images for predictive purposes. Utilization of principal component analysis (PCA) and kernel principal component analysis (KPCA) to extract essential features from chest X-ray images provides clearer insights. Furthermore, integrate support vector machines (SVM) with particle swarm optimization (PSO) to extract distinct characteristics from the images and predict the cause of death relating to the detected anomalies.

Keywords: feature extraction, particle swarm optimization (PSO), support vector machines (SVM).

ENHANCED UNDERWATER ACOUSTIC COMMUNICATION USING FSGM AND RECURSIVE LEAST SQUARE ALGORITHM

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ABSTRACT

The underwater acoustic channels are extremely complex and dynamic. The underwater acoustic communication signals experience severe Doppler shift, multi-path effect, phase noise and variation over time. The enactment of UWA channels for reliable high data rate underwater wireless communication isvery challenging due to the characteristics of the oceanic environment. The main communication technologies, including optical, magnetic induction, electromagnetic, and acoustic communications, areemployed in UWCs. In this work fully generalized spatial modulation in which one constant number and onemultiple number of antennas are active to transmit data symbols in any time interval for underwater acoustic communication (UWAC). This work proposes the Spectral coherence based Wavelet Transform for adaptive channel estimation method over the underwater timevarying MIMO channel. Furthermore, maximum likelihood (ML) decoder is used to detect the transmitted data and antennas indices from the received signal and the estimated UWA-MIMO channel.

Keywords—UWA-MIMO Channel, FSGM

PEDESTRIAN DETECTION USING IMPROVED MULTI-KERNAL CONVOLUTIONAL NEURAL NETWORK

PEDESTRIAN DETECTION USING IMPROVED MULTI-KERNEL CONVOLUTIONAL NEURAL NETWORK

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ABSTRACT

Pedestrian detection is a challenging task in computer vision with diverse applications such as autonomous driving and surveillance. Pedestrian detection result is enhanced by introducing approach using the Firefly Algorithm (FA) for Multikernel Convolutional Neural Network (MCNN) to select the kernel sizes. Penn-Fudan Pedestrian Database has been used for experimentation by training and testing. MCNN classifier comprises multiple Convolutional layers with different kernel sizes, designed to capture distinct features. The FA selects the optimal kernel sizes for each layer, thus enhancing the performance of the MCNN. Penn-Fudan Pedestrian Database and the results showthat improved MCNN achieved an outstanding F1-score of 97.70% when compared to existing methods. The result of proposed approach is potential in autonomous driving and surveillance applications.

Keywords: Firefly Algorithm (FA), Multikernel Convolutional Neural Network (MCNN), Penn- Fudan Pedestrian Database, and Pedestrian Detection

FEATURE SELECTION IN CONTENT BASED VIDEO RETRIEVAL USING INTELLIGENT WATER DROP OPTIMIZATION

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ABSTRACT

In today's digital world, the digital video is used in almost all fields resulted in large amount of Videostored, edited and shared over the internet. There are also many video repositories and libraries all aroundthe world. To search that vast video database using traditional information retrieval method proved ineffective. As a result, Visual Information retrieval technique of query by keyword which searches the textual data associated with video i.e. metadata which consist of title, description, creation date, author,video format etc., Consequently, Content based video retrieval (CBVR) a new visual information retrieval technique raised. In recent years, there were many CBVR systems proposed. But they lacked in their performance evaluation especially compression ratio for CBVR system was low in many CBVR systems. There were numerous features set in a video which gave rise to multi feature extraction in Video retrieval. But there was combinatorial optimization problem due to the vast feature set. Hence a CBVR framework which employed Generalized Eigen Value Decomposition for video segmentation, shot boundarydetection and key frame selection. Also our proposed framework overcomes the combinatorial optimization problem by the use of a natural swarm based optimization algorithm called Intelligent Water Drop algorithm. This resulted in improved performance evaluation of CBVR which is proven using the high compression ratio which obviously means better and accurate video retrieval.

SPEED CONTROL OF SWITCHED RELUCTANCE MOTOR (SRM) FOR ELECTRIC VEHICLE APPLICATIONS

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Abstract:

This paper presents a comprehensive study on the speed control of Switched Reluctance Motor (SRM) for electric vehicle applications. The focus is on optimizing the performance of SRM in electric vehicles through effective speed control strategies. Various techniques for speed control are analysed, highlighting the advantages and challenges associated with each method. The research explores the integration of advanced control algorithms to enhance the efficiency and reliability of SRM in electric vehicles. Additionally, the impact of speed control on the overall performance and energy consumption of electric vehicles is investigated. Through a systematic review of relevant literature and simulations, this study aims to provide valuable insights into the optimization of SRM speed control for electric vehicle applications. The display unit is med to display the status of the SRM motor and the keypad unit is used to set the parameters of the SRM motor. A power supply unit is used to provide the required power to all the connected units. The performance of the SRM drive is obtained by MATLAB Simulink and the simulations results are validated with experimental setup.

Keywords: switched reluctance motor, SRM, Speed Control, Electric Vehicle Optimization, PIC16F887, Driver Circuit, MOSFET

AI IMPLEMENTED MOST ADVANCED PEDESTRIAN DROPPER FOR BLIND AND ELDERLY PERSONS

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Abstract:

This paper presents an innovative approach to enhance pedestrian safety by employing a comprehensive object detection system utilizing Raspberry Pi camera and audio recognition technology. The proposed system aims to mitigate road accidents involving pedestrians by detecting and alerting users to the presence of objects in their path. The object detection component utilizes state-of-the-art computer vision algorithms to identify and track pedestrians in real-time using the Raspberry Pi camera. The system employs a combination of image processing techniques and deep learning models to achieve accurate and efficient pedestrian detection. The low-cost, compact, and energy-efficient nature of the Raspberry Pi makes it an ideal platform for deployment in various settings, including urban environments and pedestrian crossings. The proposed object detection system offers a promising avenue for improving pedestrian safety, especially in scenarios where visual cues alone may not be sufficient. The combination of Raspberry Pi camera and audio recognition technologies provides a versatile and practical solution to address the complex challenges associated with pedestrian safety on roadways.

HYBRID STREET LIGHTING SCHEME

Mr. KHAJA NAJUMUDEEN A[1], SARAVANAKUMAR K [2], SIVASANKARAN B [3] ,THAGESH R [4], THOUFEEQ ROSHAN J [5], VISWAS S [6]

[1,2] Assistant Professor,Hindusthan College of Engineering and Technology, Coimbatore – 641 032, Tamil Nadu, India.

[3,4,5,6] UG Students, Department of Electrical And Electronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore – 641 032, Tamil Nadu, India.

Abstract:

The advancement of urban infrastructure calls for innovative and sustainable solutions to address energy conservation and optimize the efficiency of public services. Street lighting is a crucial aspect of urban development, accounting for a significant portion of a city's energy consumption. To address this challenge, a Hybrid Street Light Scheme with Auto Dimming Technology has been proposed. This scheme combine's conventional street lighting with modern technology to create a more energy-efficient and cost-effective lighting solution. The core of this system is the integration of auto-dimming technology, which dynamically adjusts the brightness of street lights based on real-time environmental conditions. By using various sensors, including light sensors, motion detectors, and weather sensors, the system can automatically dim the street lights during periods of low activity or when natural ambient light is sufficient. This ensures that the lights are only at their full brightness when needed, reducing energy consumption and light pollution.

SELF POWERED WEARABLE DEVICE FOR CONTINUOUS HEALTH MONITORING

Mr MAHESHKUMAR N[1], Mrs.Nandhini B [2] , NANTHA BALA N [3], SAKTHIDHASAN V [4] , SANJEEV V [5] , THAVASI R [6]

[1]Assistant Professor Hindusthan College of Engineering and Technology, Coimbatore – 641 032, Tamil Nadu.

[2]Associate Professor Hindusthan College of Engineering and Technology, Coimbatore – 641 032, Tamil Nadu.

[3,4],[5,6] UG Students, Department Of Electrical And Electronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore – 641 032, Tamil Nadu, India.

Abstract:

This paper presents a comprehensive study on the speed control of Wearable monitors devices that have revolutionized the healthcare industry with help of non-invasive measurement technologies. However, the adoption of these vital monitors faces challenges such as high-power consumption and limited battery lifetime. In this paper, to overcome these challenges, a self-powered wearable monitoring system is designed, integrated, and experimentally validated. The system includes a photovoltaic panel (PV), a DC-DC converter, supercapacitors, a pulse sensor, an accelerometer, a microcontroller unit and a Bluetooth module to extract critical physiological parameters, including heart rate, oxygen saturation, activity of daily living and deliver wireless data access to a mobile device.

ECOEDGE: SUSTAINABLE AGRICULTURE REVOLUTION THROUGH IOT-ENABLED EDGE COMPUTING

Jeffywin Kettyshia.I[1],Sherine.S[2]

1,2 UG Student, Computer Science and Engineering, Karunya Institute of Technology and Sciences.Coimbatore, India

jeffywinkettyshia@karunya.edu.in

ABSTRACT

The agricultural industry is currently at the forefront of a significant transformation, marked by the integration of advanced technologies driving sustainable progress. The implementation of the Internet of Things (IoT) has ushered in a data-driven era in agriculture, enabling precise and cost-effective farm management while upholding environmental sustainability. Conventional agricultural technologies, such as IoT and cloud computing, hold the potential to revolutionize the agriculture sector by introducing robotics and artificial intelligence. While these developments hold great promise, they also come with their unique set of challenges like redundant data and latency problems within wireless sensor networks (WSNs). These challenges not only lead to increased time and energy consumption but also pose impediments to the advancement of our farming community. In response, this paper introduces , which leverages IoT-enabled edge computing to provide real-time data processing and decision-making capabilities at the farm level. The key focus areas include precision agriculture, resource optimization, and improved data analytics, leading to minimized waste, reduced environmental impact, and maximized crop yield and quality. represents a significant step forward in advancing sustainable agriculture practices, aligning with the growing need for innovative solutions in the face of increasing global food demand and environmental challenges. underscores the potential of IoT-enabled edge computing as a catalyst for transformation in agriculture, providing a multitude of benefits to both individual farmers and the agricultural industry as a whole as such advancements are pivotal in our collective pursuit of a more environmentally responsible world and a sustainable future.

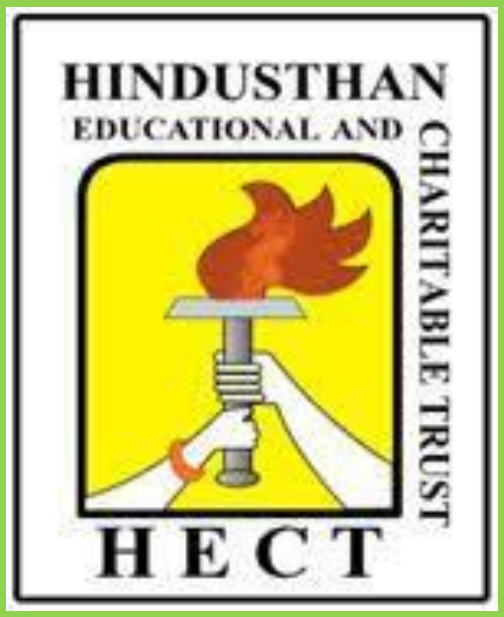
EARLY DIAGNOSIS OF ACUTE MYELOID LEUKEMIA USING MACHINE LEARNING ALGORITHM

S.Shobha Christil[1], Dr.S.Saravanasundaram[2], Dr N P Ananthamoorthy[3]
[1]Assistant Professor, Department of Biomedical Engineering, Hindusthan College of Engineering and Technology Coimbatore, India
[2]Professor and Head, Department of Biomedical Engineering Hindusthan College of Engineering and Technology, Coimbatore, India
[3]Professor and Head, Department of Electrical And Electronics Engineering Hindusthan College of Engineering and Technology, Coimbatore, India
christilashobha@gmail.com

ABSTRACT

AML is the most common type of leukemia that usually occurs in both adults and children. It affects the WBCs of the human body and causes them to form abnormally. The abundance of abnormal WBCs in the human body causes acute cancers. The main objective of this research is to detect the Acute Myeloid Leukemia in the blood smear sample itself. In this work we are going to collect the blood sample from the patients and then developing the blood smear and classification of blood components present in the blood and constructing the diagnosis through artificial intelligence. So this research method will replace the manual method of analysis the blood smear by laboratory technicians.

Keywords: Acute Myeloid Leukemia, Blood Smear, Deep Learning Techniques, Artificial Intelligence.



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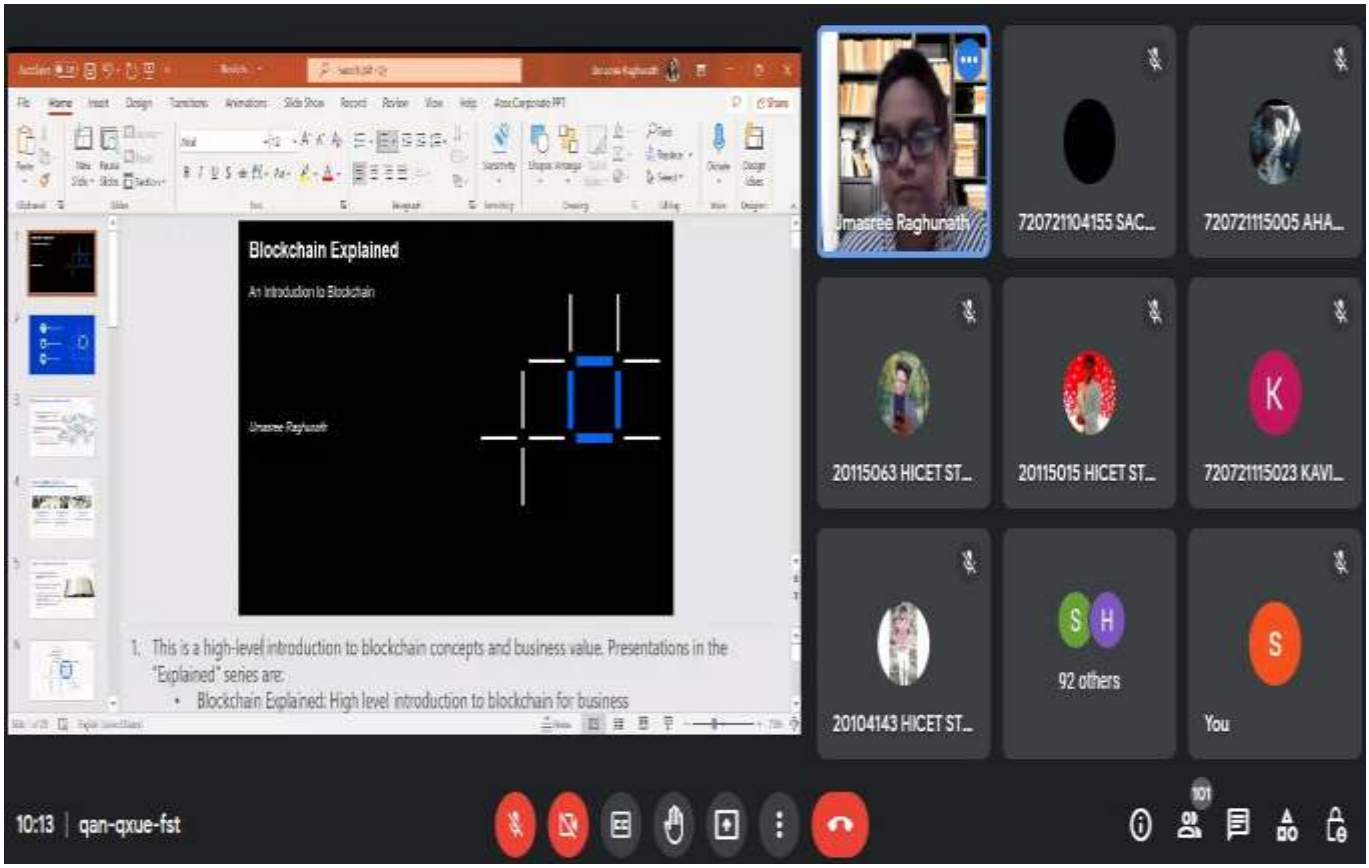
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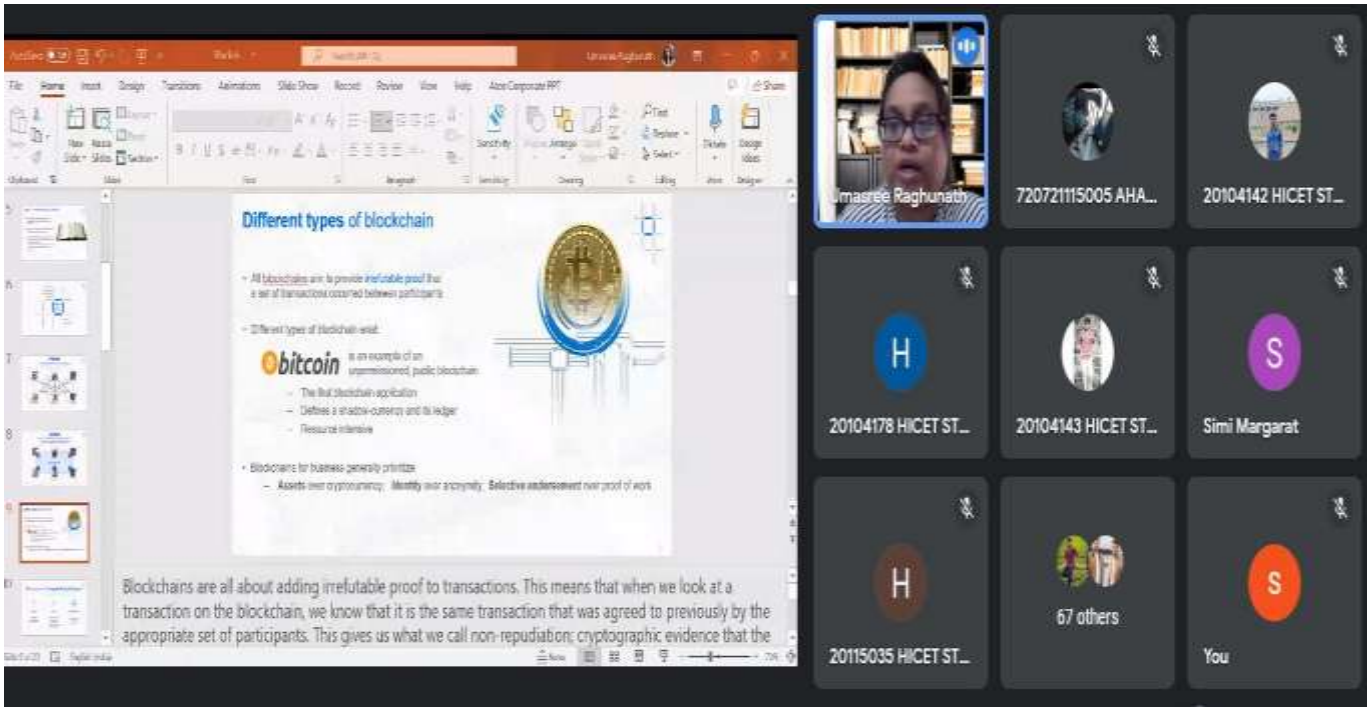
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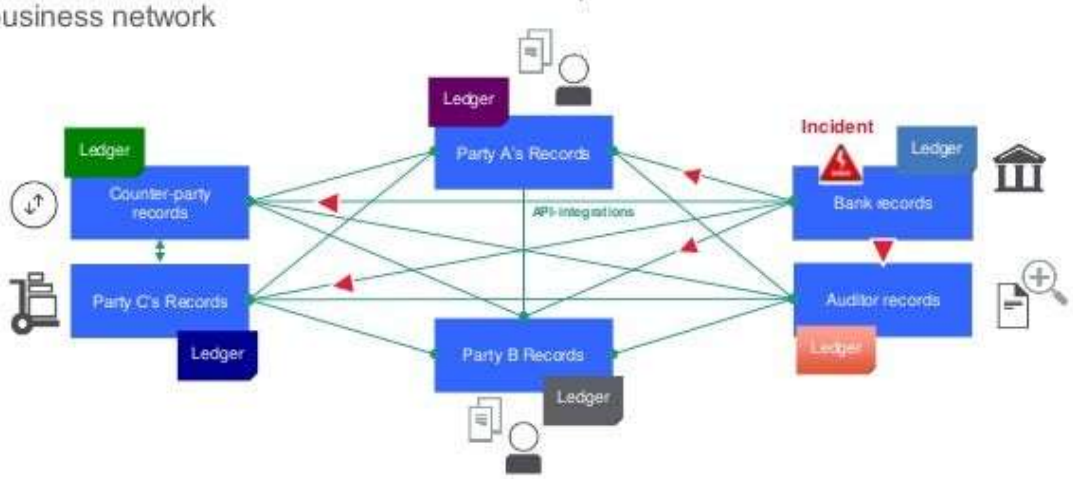
Report for Faculty Development Program on Blockchain Technologies

Name of the Faculty : Mr.Lakshmanan , Dr.A.Priya, Ms.Gayathri R, Ms.Devi , Mr.Priyadharshan M	
Department: CSE	Designation: Professor, Assistant Professors
Name of the Event: Faculty Development Program on Blockchain Technologies	
Level : College	
Venue / Mode: Online	
No. of Days : 5	Dates : 25.09.2023 - 30.09.2023
Funded by : Nil	
No. of Participants : 52	Registration charges (if any) :Nil
Name and Designation of Resource Person(s): Speaker : Muthu Sundaravadivel , Blockchain Solution Architect, IBM Sustainability Software	
Outcome: Faculty will have a foundational understanding of blockchain technology, its core concepts, and how it differs from traditional databases. Key terms such as blocks, chains, nodes, and consensus mechanisms. Overview of decentralized and distributed ledgers and how they improve security and transparency. Real-world use cases, such as tracking product authenticity, digital identity verification, and cross-border payments. How blockchain enables transparency, trust, and reduced operational costs. Features of IBM Blockchain Platform, such as Hyperledger Fabric support, smart contracts, and secure identity management.	
Remarks and Feedback on the Event: Similar events can be conducted in future to motivate the students in the field of o Blockchain Technologies	
Plan of Implementing in HiCET (if any): -	
Signature of the Faculty HoD Principal	


Blockchain Explained
An Introduction to Blockchain
Umasree Raghunath
1. This is a high-level introduction to blockchain concepts and business value. Presentations in the "Explained" series are:
• Blockchain Explained: High level introduction to blockchain for business
Umasree Raghunath
720721104155 SAC...
720721115005 AHA...
20115063 HICET ST...
20115015 HICET ST...
720721115023 KAVI...
20104143 HICET ST...
92 others
You
10:13 | qan-qxue-fst

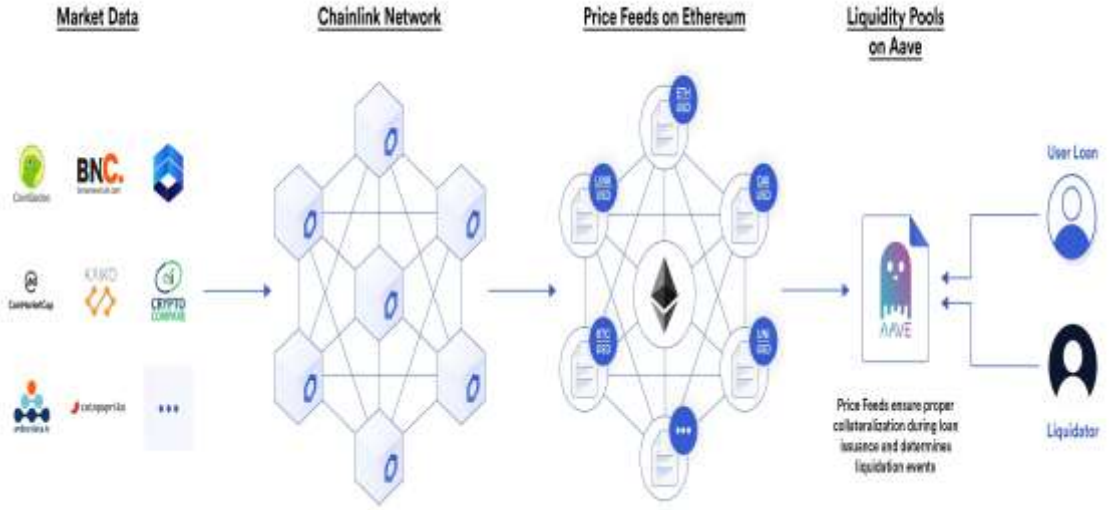

Different types of blockchain
bitcoin
Blockchains are all about adding irrefutable proof to transactions. This means that when we look at a transaction on the blockchain, we know that it is the same transaction that was agreed to previously by the appropriate set of participants. This gives us what we call non-repudiation: cryptographic evidence that the
Umasree Raghunath
720721115005 AHA...
20104142 HICET ST...
20104178 HICET ST...
20104143 HICET ST...
Simi Margarat
20115035 HICET ST...
67 others
You

Problem - Difficult to monitor asset ownership and transfers in a trusted business network



Inefficient, expensive, vulnerable

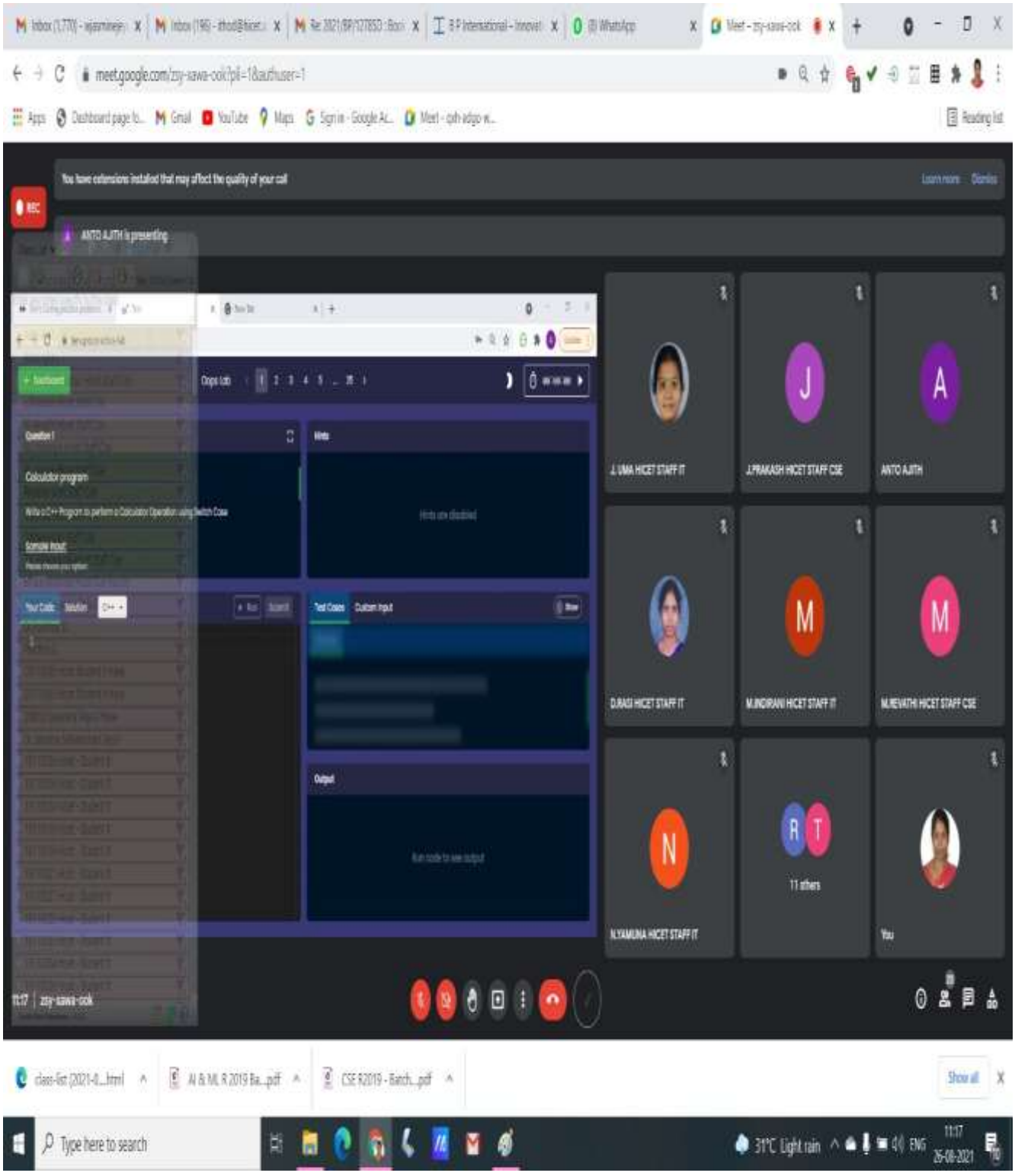
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Report for Faculty Development Program on Fascinating Python Applications in Real World

Name of the Faculty : Ms.Devi , Mr.Priyadharshan M	
Department: CSE	Designation: Assistant Professors
Name of the Event: FDP on Fascinating Python Applications in Real World	
Level : College	
Venue / Mode: Offline	
No. of Days : 5	Dates : 18.12.2023 - 22.12.2023
Funded by : Nil	
No. of Participants : 45	Registration charges (if any) :Nil
Name and Designation of Resource Person(s): Speaker :	
Outcome: • Participants will gain hands-on experience using Python for real-world applications across various domains such as web development, automation, and data science. • The workshop will teach how to create scalable Python-based applications for web, IoT, and enterprise solutions. • Attendees will develop problem-solving skills by applying Python to real-world challenges in areas like cybersecurity, AI, and machine learning.	
Remarks and Feedback on the Event: Similar events can be conducted in future to motivate the students in the field of python	
Plan of Implementing in HiCET (if any): -	
Signature of the Faculty HoD Principal	


You have extensions installed that may affect the quality of your call
ANTO AJITH is presenting
Oops Lab
Question 1
Calculator program
Write a C++ Program to perform a Calculator Operation using Switch Case
Sample Input
Hints
Hints are disabled
Your Code
Solution
Test Cases
Custom Input
Output
Run code to see output
J. UMA HICET STAFF IT
J.PRAKASH HICET STAFF CSE
ANTO AJITH
D.RAGI HICET STAFF IT
M.INDIRANI HICET STAFF IT
M.JEEVATHI HICET STAFF CSE
N.YAMUNA HICET STAFF IT
11 others
You
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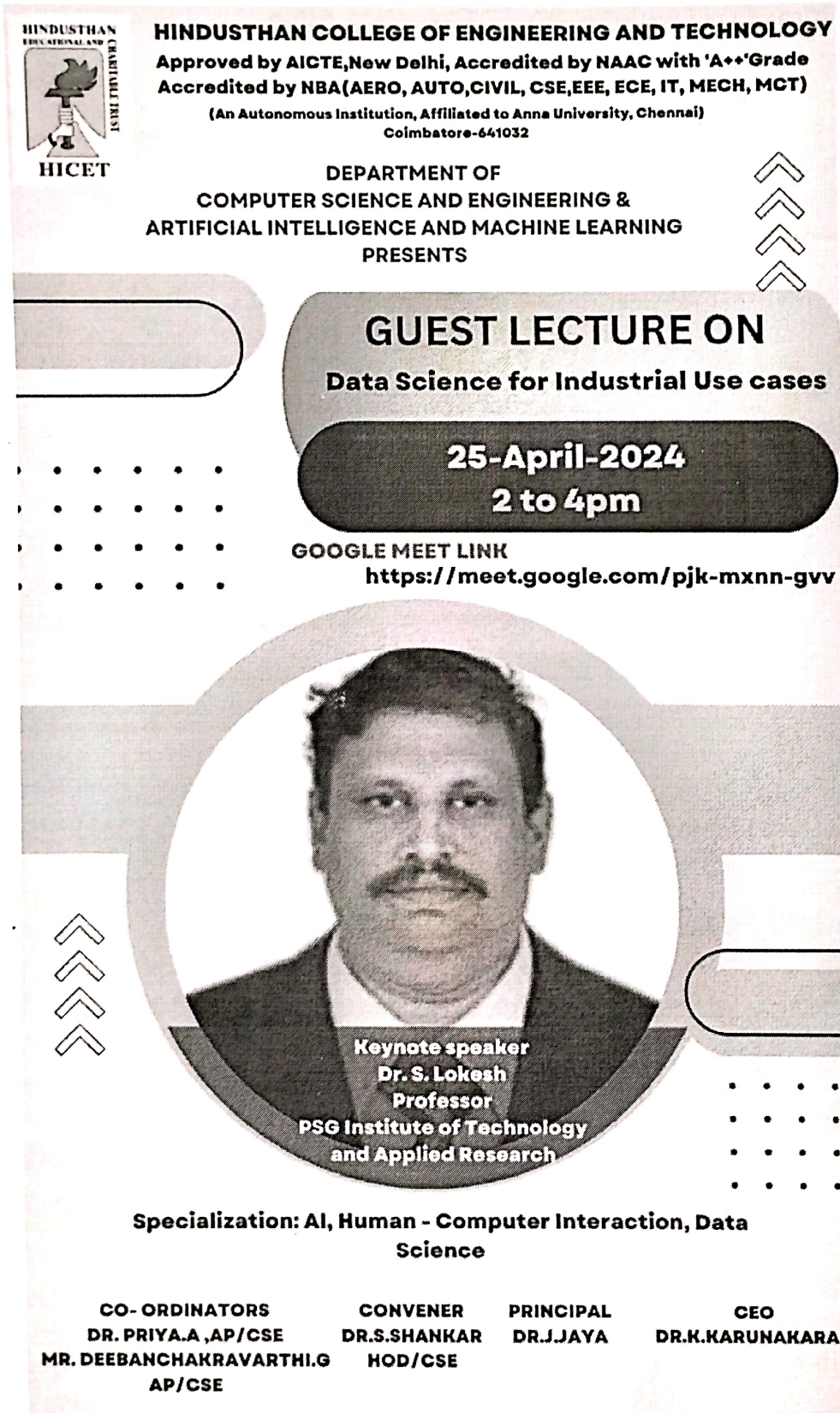
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Report for Guest Lecture on "DATA SCIENCE FOR INDUSTRIAL USE CASES"

Name of the Faculty: Dr. Priya. A	
Department : AIML & CSE	Designation : Assistant Professor
Name of the Event: **Guest Lecture on "DATA SCIENCE FOR INDUSTRIAL USE CASES"**	
Level : Department	
Venue / Mode: Online Mode	
No. of Days : 1	Dates : 25.04.2024
Funded by : Nil	
No. of Participants : 98	Registration charges (if any) :Nil
Name and Designation of Resource Person(s) : Dr. S. Lokesh, Professor, PSG Institute of Technology and Applied Research, Coimbatore.	
Outcome : The guest lecture covered the practical applications of Data Science in Industrial Applications. The resource person explained a real-time project in this domain using Google Colab Environment.	
Remarks and Feedback on the Event: clarity and depth of the content presented	
Plan of Implementing in HiCET (if any) :	
7/5/24 Signature of the Faculty	HoD Principal

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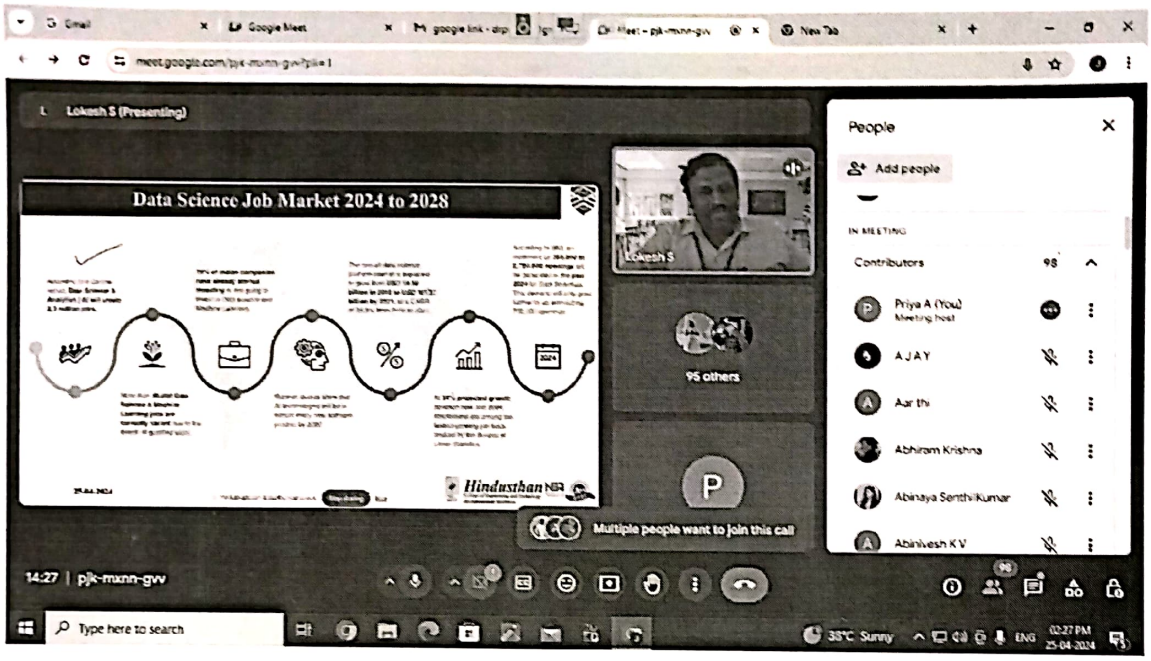
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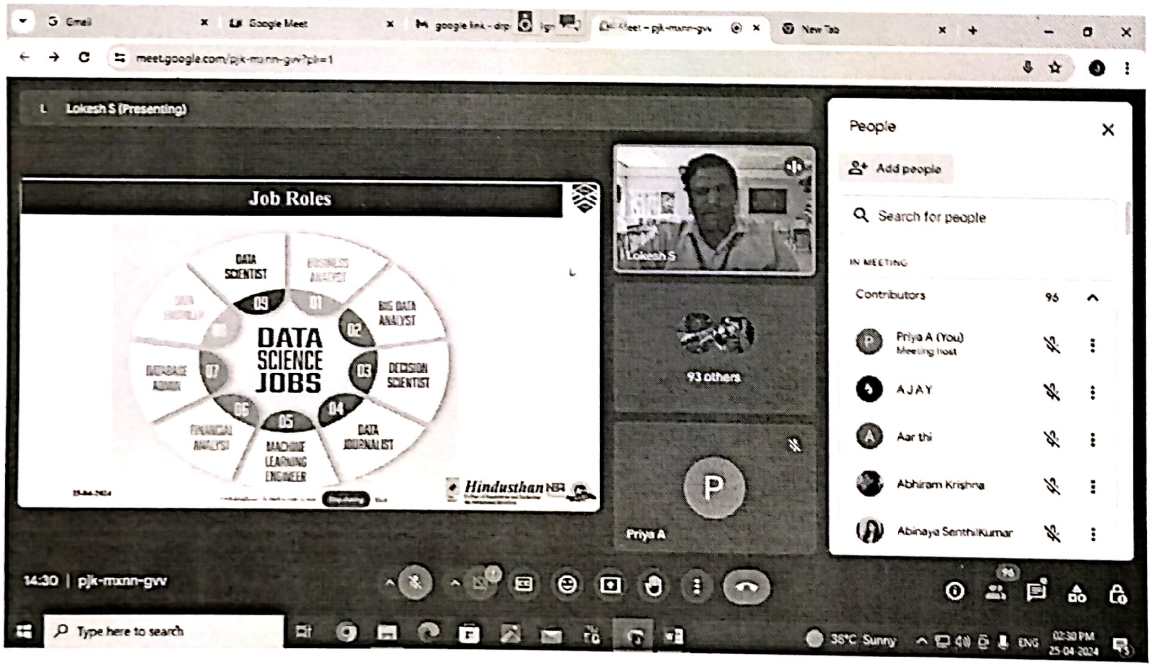


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Google Meet Photographs of Event – 2 Nos:





STUDENTS ATTENDED LIST

S. No	REG.NO	STUDENT NAME
1	720722104001	AASHIFA S
2	720722104002	ABHINANTANA P.G
3	720722104003	ABINIVESH K V
4	720722104004	R ARAVIND SAI RAM
5	720722104005	AVANTHIKA S
6	720722104006	BALA HARIHARAN B
7	720722104007	DEVIKA MENON K B
8	720722104008	DHARSHAN R
9	720722104009	DINAGARAN D
10	720722104010	DIVYA R M
11	720722104011	FAAZIL K
12	720722104012	GEETHA LAKSHMI S
13	720722104013	GOPINATH K
14	720722104014	GOWTHAM KUMAR S
15	720722104015	HAKIMA THASNEEM H
16	720722104016	HARISH D
17	720722104017	JEEVA G K
18	720722104018	KANDASAMY E
19	720722104019	KASIRAJAN P
20	720722104020	KAVI MUGILAN E
21	720722104021	KOWSIKA T
22	720722104022	LINGESH R
23	720722104023	LOGESHWARAN V B
24	720722104024	MAHALAKSHMI S
25	720722104025	MANUTHRA M
26	720722104026	MEENAKSHI C M
27	720722104027	NIVETHITHA M
28	720722104028	PAVITHRA C
29	720722104029	PAVITHRA K
30	720722104030	PINKY V
31	720722104031	PRAGATHEESH R A
32	720722104032	PRANAOV S
33	720722104033	RENITH M
34	720722104034	ROHITH S
35	720722104035	ROSHINI S
36	720722104036	SENTAMIL SELVAN P
37	720722104037	SHAFIUR RAHUMAN M S
38	720722104038	SHAMAN DEV M
39	720722104039	SOWMYA B
40	720722104040	SREYA E
41	720722104041	SRI BALAJI R
42	720722104042	SRIRAM E
43	720722104043	SUDHARSAN M
44	720722104044	SUHAIB S
45	720722104045	TECSON T
46	720722104046	THARUN KUMAR A
47	720722104047	AATHITHYAN T
48	720722104049	ABHISHEK S
49	720722115001	AARTHI A
50	720722115002	ABHIRAM KRISHNA C
51	720722115003	ABINAYA S
52	720722115004	AFSAL S
53	720722115005	AKASH G
54	720722115006	AKASH S
55	720722115007	AKILAN B P
56	720722115008	ANGEL MARY I
57	720722115009	AYYANATHAN P
58	720722115010	BALA MURUGAN K
59	720722115011	BALA NITHIN R K
60	720722115012	BARATH P
61	720722115013	BARATH RAJ S
62	720722115014	BIJU B
63	720722115015	DHANUSH A
64	720722115016	DINESHKUMAR M
65	720722115017	DURAIPANDIYAN S
66	720722115018	FIDHA NASRIN
67	720722115019	GANAPATHI M
68	720722115020	GOKUL S E
69	720722115021	GOWTHAM K A
70	720722115022	GOWTHAM S
71	720722115023	GUNAL CHRIST A
72	720722115024	HANISHKUMAR
73	720722115025	HARI HARAN K
74	720722115026	HARIHARAN M
75	720722115027	HARISH R
76	720722115028	HASHIR MOHAMED P B
77	720722115029	ISMAIL M
78	720722115030	JAYA SURIYA K
79	720722115031	JESHWANTH K
80	720722115032	KAUSIC DHARSHAN K
81	720722115033	KESAVARTHINI S
82	720722115034	KISHORE BABU S

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83	720722115035	MANOJ S
84	720722115036	MOHAMMED UMMAR M
85	720722115037	MUHAMMED IRFAN R
86	720722115038	NANDHINI T
87	720722115039	NISHA M
88	720722115040	PALPANDI V
89	720722115042	PRAVEEN A
90	720722115043	PRAVEEN KUMAR S
91	720722115044	RAJESH KUMAR A
92	720722115045	RISHIDHARAN G
93	720722115046	RITHIKA M
94	720722115047	ROHITH E S
95	720722115048	SAKTHIMUGIL K
96	720722115049	SANJIV S
97	720722115050	SANJO A
98	720722115051	SANTHOSH K

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Data Science for Industrial Use Cases Faculty Members Attended List

S.No.	Name of the Faculty	Department
1	Dr.Kousalyadevi S	Assoc.Prof/CSE
2	Dr.A.Priya	AP/CSE
3	Ms.V.Sreelekha	AP/CSE
4	Ms.M.Amuthavalli	AP/CSE
5	Ms.Sathya.S	AP/CSE
6	Mr.Deeban Chakkaravarthi	AP/CSE

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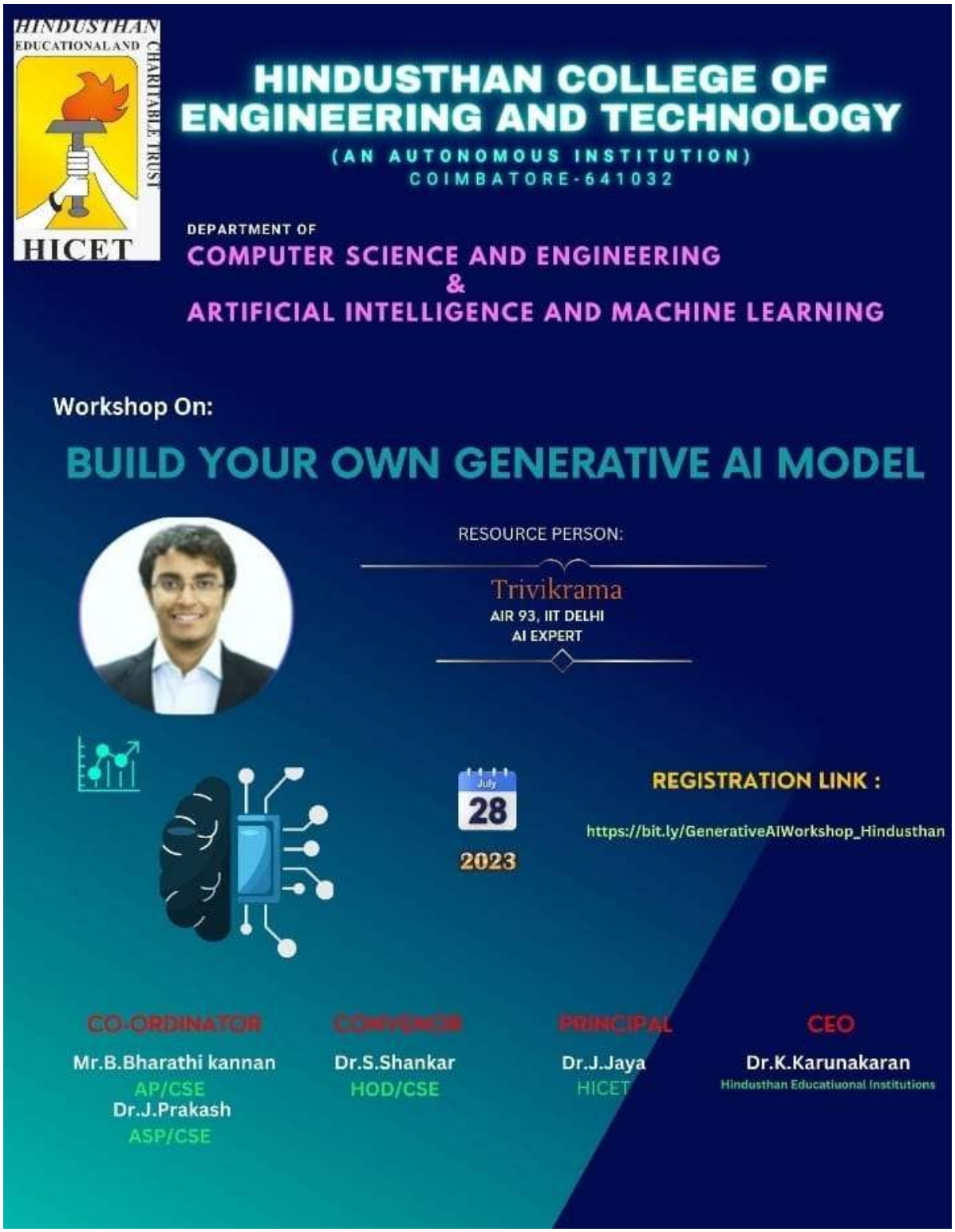
Report for Workshop on "BUILD YOUR OWN AI MODEL"

Name of the Faculty : Dr.J.Prakash ,B.Bharathi Kannan,	
Department : AIML , CSE,ECE & IT	Designation : Associate Professor, Assistant Professor
Name of the Event: Workshop on "BUILD YOUR OWN AI MODEL"	
Level : College	
Venue / Mode: Online (Google Meet)	
No. of Days : 1	Dates : 28.7.2023
Funded by : Nil	
No. of Participants : 248	Registration charges (if any) :Nil
Name and Designation of Resource Person(s) : Mr.Trivikrama, AI Expert, IIT Delhi Alumnus	
Outcome : The participants will be able to: Identify problems where artificial intelligence techniques are applicable. Apply selected basic AI techniques; judge applicability of more advanced techniques. Impart knowledge about crypto currency and its market usage.	
Remarks and Feedback on the Event: Gain valuable insight into the ChatGpt and other AI tools.	
Plan of Implementing in HiCET (if any) :	
Signature of the Faculty	HoD / Principal

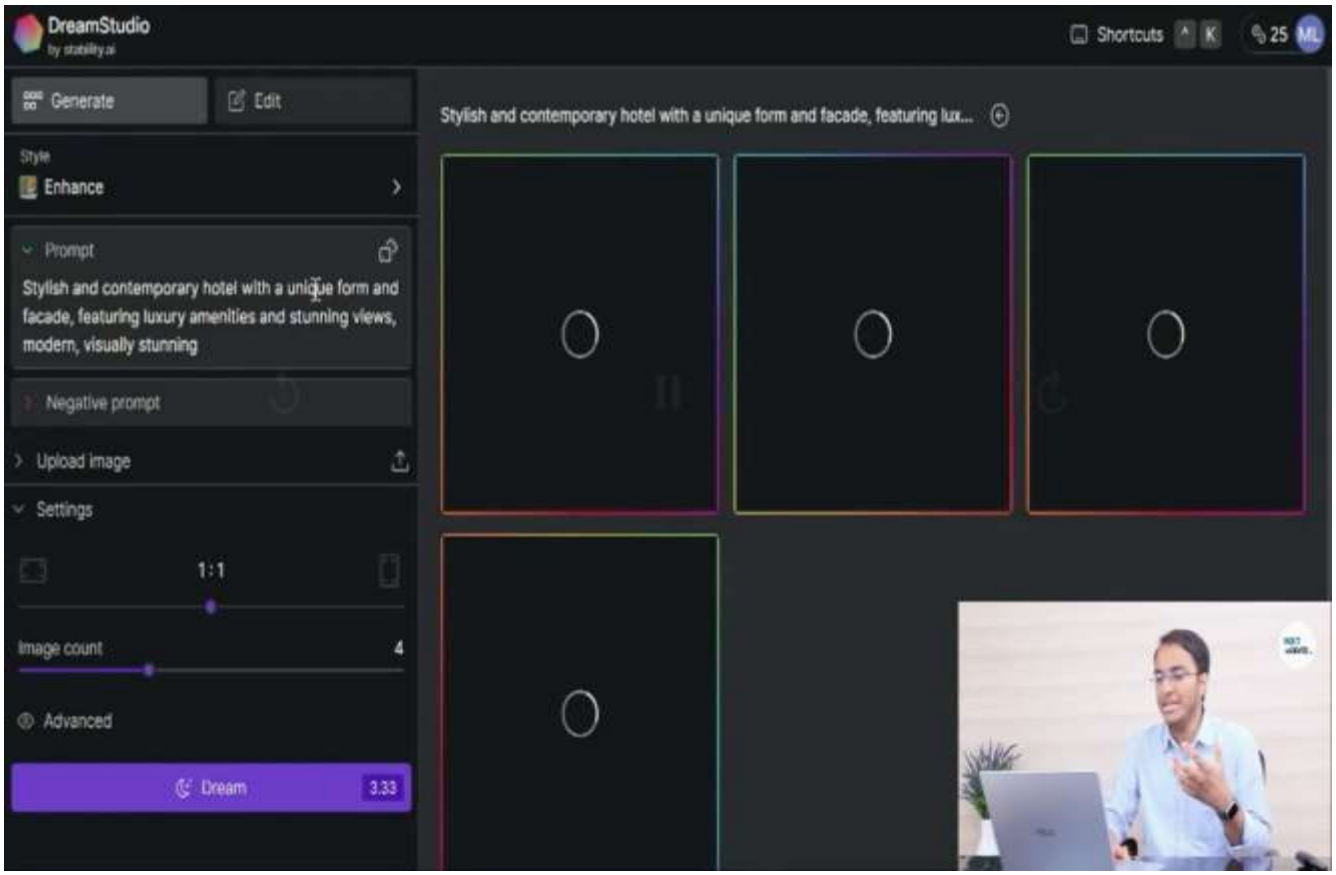




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Geo Tagged Photographs of Event – 2 Nos:







Students Attended List

S.No	Reg.No	Student Name
1	720721115001	AARTHI V
2	720721115002	ABDUL AKRAM A
3	720721115003	ABINESH S
4	720721115005	AHAMED AKHIL M N
5	720721115007	AJITH T
6	720721115008	AKSHAYA LAKSHMI R
7	720721115009	ANZIL MOHANNAD MUTHALIB
8	720721115012	DEEPIKA K J
9	720721115013	DINESH KUMAR G
10	720721115014	DIVYAA RANJANI V E
11	720721115015	G P GUHAA PRIYAN
12	720721115016	GUNALAN R
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15	720721115020	S JOSHWA
16	720721115021	KAAMESH S
17	720721115022	KARTHICK P
18	720721115023	KAVIYA S
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20	720721115025	KISHORE M
21	720721115028	METHUN R
22	720721115029	MOHAMED NAZEEM IBRAHIM M
23	720721115030	MOHIT CHANDRAN R
24	720721115031	G MUKESH
25	720721115032	MUSTHAFA N
26	720721115033	NAVAJITH S
27	720721115034	NAVEEN K
28	720721115035	NISHANTH P
29	720721115037	PARAMESWARAN A B
30	720721115038	PRASANNA S N
31	720721115039	RAASHID M
32	720721115040	RAHUL P G
33	720721115041	RAMACHANDIRAN M
34	720721115042	RASIGA PRIYA M
35	720721115043	RASU A
36	720721115044	SANJAI R
37	720721115045	SANJANA MAHALAKSHMI R
38	720721115046	SANJAY VARMA K
39	720721115047	SANTHOSH KUMAR N
40	720721115049	SHREEMAN M M
41	720721115051	SRIVATHSAN S
42	720721115052	SUDHAN M
43	720721115054	THAMIL S
44	720721115055	UDHAYABARATHI U
45	720721115056	VANITHA J
46	720721115058	VEDHAVARSHINI S
47	720721115061	VISHNU V K
48	720721115062	VISHVA R B
49	720721115063	YOGESHWARAN S
50	720721104004	ABHINAV M M
51	720721104005	ABINASH S
52	720721104006	ADHIYAN G B
53	720721104007	AJAY FRANGLIN
54	720721104008	AJAY S
55	720721104009	AKASH D
56	720721104010	AKSHALIN JEFITA R J
57	720721104011	ANNAPOORNA N
58	720721104012	ANUBHAV REJEESH
59	720721104013	ARAVINDH SOLAI V
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61	720721104015	ASHWIN L
62	720721104017	CATHLEEN ROWENA S
63	720721104018	DEEPTI S
64	720721104019	DHANUSH RAJA S
65	720721104021	DHIRAAJ K V
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69	720721104026	HARIS R
70	720721104028	HARSHITH BABU
71	720721104029	INDHUMATHI M
72	720721104030	KRISHNA KAVIARASU S
73	720721104032	LEO BABU C
74	720721104033	LOGESHWARAN M
75	720721104034	LOGESHWARI C K
76	720721104035	MADHAN KUMAR A
77	720721104037	MITHRA S A
78	720721104038	MIZBA SHEIK ABDUL RAFIQUE
79	720721104039	MOHAMED SYED AFREETH S
80	720721104040	MUTHU PETCHI G
81	720721104041	NAGARJUN R
82	720721104042	NISHA ANANDRAO KADAM

83	720721104043	NIYOJIN JANARDHANAN
84	720721104044	PRIYANGA S P
85	720721104045	RAHUL SHANKAR R
86	720721104046	RAJESH D
87	720721104047	RAVIKUMAR ROHAN P
88	720721104049	RISHI PRABHU V
89	720721104050	SABARISH K
90	720721104051	SAKTHI BHARATH A
91	720721104052	SANDRA C S
92	720721104053	SARIGA SARITH K
93	720721104054	SHARON KEERTHY RATAN K
94	720721104055	SIVANI S
95	720721104056	SIVAPRAKASH N
96	720721104057	SIVASANGARAN K K
97	720721104058	SREE SAJEEV K J
98	720721104059	SUBALAKSHMI M
99	720721104060	VIDHYA S
100	720721104061	VISHNU VARDHAN J S
101	720721104062	YADHU KRISHNA T
102	720721104063	AGASH A
103	720721104065	AKASH D
104	720721104081	GUNA M
105	720721104082	GURUNATH R
106	720721104083	HARI ARUL MURUGAN M
107	720721104084	HARI PRAKASH K
108	720721104085	HARIHARAN G
109	720721104086	HARIHARAN K
110	720721104087	HARI KUMAR P
111	720721104089	HESVENTH KUMAR K
112	720721104090	INDHU KRISHNAN A
113	720721104091	IRSHAD RAJA K
114	720721104092	JAGATH S
115	720721104093	JANISHA S
116	720721104094	JASWANTH K
117	720721104095	JAYA SURYA S
118	720721104096	JOSHUA J
119	720721104097	KABILAN R
120	720721104099	KARTHIKA S
121	720721104100	KARUNYA A
122	720721104101	KAVISARATHY S
123	720721104102	KIRUBHAKARAN S
124	720721104103	KRISHNARAJ V
125	720721104104	LAKSHMIKANTHAN B
126	720721104106	LYDIA FLORANCE W
127	720721104145	RAM PRATHAF E
128	720721104146	RAMKUMAR R
129	720721104147	RAMKUMAR R R
130	720721104148	RAMU V
131	720721104149	RENGANESAN S
132	720721104150	RISHI RAAM N S
133	720721104151	RUBA RENUGAVATHI A
134	720721104152	SABARESH M A
135	720721104153	SABARI G
136	720721104167	SHANMUGASARATHI P
137	720721104168	SHARMILA R
138	720721104169	SINDHYA M
139	720721104171	SRIMATHI DEVADHARSHINI M
140	720721104172	SURYA PRAKASH K K
141	720721106002	ABINESH R M
142	720721106003	ADWAITH SIMHAN C P
143	720721106004	AJISHINI C
144	720721106005	AKASH S M
145	720721106006	AKILDAS K R
146	720721106007	AKSHARA V S
147	720721106009	BHAVYAKRISHNAN T K
148	720721106010	DEVA PRIYA S
149	720721106011	DEVADHARSHINI A
150	720721106012	DHABHRINA JOSELYN E
151	720721106024	ABINESH R
152	720721106025	ANISH K
153	720721106028	ARAVINDHARAJAN S
154	720721106029	ARUNESHKUMAR A
155	720721106030	ARUNKARTHICK V
156	720721106031	ARUNKUMAR S
157	720721106032	ASHWIN BALAJI H K
158	720721106033	AVISHEK A
159	720721106048	HARIKRISHNAN K V
160	720721106049	JANANI R
161	720721106051	KALIDASS P
162	720721106052	KAMALESH B
163	720721106117	VAISHNAVI S
164	720721106123	VISHNU PRASAD K M
165	720721106124	VISHNU S
166	720721106125	VISHNU V S
167	720721106126	YUVASHREE A
168	720721106127	SAM VENKADESH KUMAR G
169	720721110001	AARTHI R
170	720721110002	ABINAYA G
171	720721110003	ADIL ALI
172	720721110004	AJAYKUMAR A

173	720721110005	ASHIKA R
174	720721110006	BHARATH V K
175	720721110007	BUSHEN RAAJ Y
176	720721110023	NIRANJAN S
177	720721110024	NIROOPA R P
178	720721110025	NISHAANTHINI M
179	720721110026	NISHANTHINI D
180	720721110031	PRIYADHARSHINI K
181	720721110032	RAGHUL VEL PANDIAN P
182	720721110033	RAGUL M
183	720721110034	RATHISH B
184	720721110035	RITHWIK S
185	720721110052	VASANTH G
186	720721110055	VISHWANATHAN A
187	720721110056	YUVARANI J
188	720721110058	ABINESH G
189	720721110059	ARUMUGA VIGNESH N
190	720721110066	DHARSHINI V
191	720721110067	DHEENA DHAYALAN S
192	720721110069	GOWTHAM S
193	720721110070	GURU AVINASH S
194	720721110071	GURUPRASATH K
195	720721110072	HARI HARAN M
196	720721110073	HARI HARAN P
197	720721110074	HARINI M
198	720721110075	HEMANTH RAO A
199	720721110076	IRSHAD M Y
200	720721110077	JAYASHRI HAMALATHA G
201	720721110078	KALAISELVAN A
202	720721110079	KARTHICK V
203	720721110080	KAVINIVETHA T
204	720721110081	KAVIYA L
205	720721110082	KESHAVAN N
206	720721110083	KIRAN M
207	720721110084	KISHORE G
208	720721110085	KOWSALYA K
209	720721110086	KREESHMA S K
210	720721110087	LOGESH B
211	720721110088	LOGESHWARAN S
212	720721110089	MATHESH KUMAR V
213	720721110090	MOHAMED ASLAM M
214	720721110091	MOHAMED FAISAL M
215	720721110092	MOHAMED NAWFAL Z
216	720721110093	MOHAMED SAJID M
217	720721110094	MUGUNTHAN M
218	720721110095	MUTHU KUMARAN R
219	720721110096	MUTHUSAMY M
220	720721110097	MYDEEN M
221	720721110098	NAVEEN KARTHIKEYAN M
222	720721110099	NILAVAN E
223	720721110100	PRADEEP KUMAR R
224	720721110101	PRAKASHRAJ R
225	720721110102	PRAVEEN S
226	720721110103	PRAVEEN S
227	720721110104	RAGHAVAN K
228	720721110105	RAJESH KUMAR V
229	720721110106	RAMKUMAR S
230	720721110107	RANGANATHAN C
231	720721110108	SAFIKA BANU M
232	720721110109	SAHITHYA MARAGATHAM D
233	720721110110	SAKIL KUMAR S
234	720721110111	SANTHIYA S
235	720721110112	SARAVANAN E
236	720721110113	SATHAIAH M
237	720721110114	SETHURAMAN U L
238	720721110115	SOMESH M
239	720721110117	SUBA SRI K
242	720721110120	SWATHIMEENA K
243	720721110121	THANUSHKUMAR M
244	720721110122	THENNAVAN P
245	720721110123	THIRUMAL S
246	720721110124	UMAYAL M
247	720721110125	VENKATESH S
248	720721110126	VIKRAM G

Workshop on AI Model - Faculty Members Attended List

S.No.	Name of the Faculty	Department
1	Dr.Dhanapal	Prof/CSE
2	Ms.N.Priya	AP/CSE
3	Ms.Reena.B	AP/CSE
4	Mr.Karthikeyan	AP/CSE
5	Dr.Satheesh Kumar	AP/CSE
6	Ms.Ramyadevi	AP/CSE
7.	Ms.Umapriya M	AP/CSE
8.	Mr.Bharathi Kannan	AP/CSE

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Report for Hands on Training on MS - Office

Name of the Faculty : Dr.S.Shankar,Ms.R.Gayathri,Mr.B.Bharathikannan	
Department : CSE	Designation : HoD& Assistant professors
Name of the Event : Hands on Training Advanced Options in MS-Excel for Non-Teaching Faculties	
Level :College Level	
Venue / Mode : CSE LAB/ Offline mode	
No. of Days : 01	Date : 24.08.23
Funded by : Nil	
No. of Participants : 30	Registration charges (if any) :Nil
Name and Designation of Resource Person(s) : Mr.R.Jayaraj , Associate Professor/ CSE	
Outcome : Non-Teaching Staff are educated in advance tools in MS-Excel	
Remarks and Feedback on the Event : The session was very informative for Non –Teaching Faculties	
Plan of Implementing in HiCET (if any) : Not applicable	
Signature of the Faculty HoD Principal	

Copy of the Event Brochure / Invitation:



Photograph of Event :



HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST
HICET

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Report for Hands on Workshop on Network Concepts

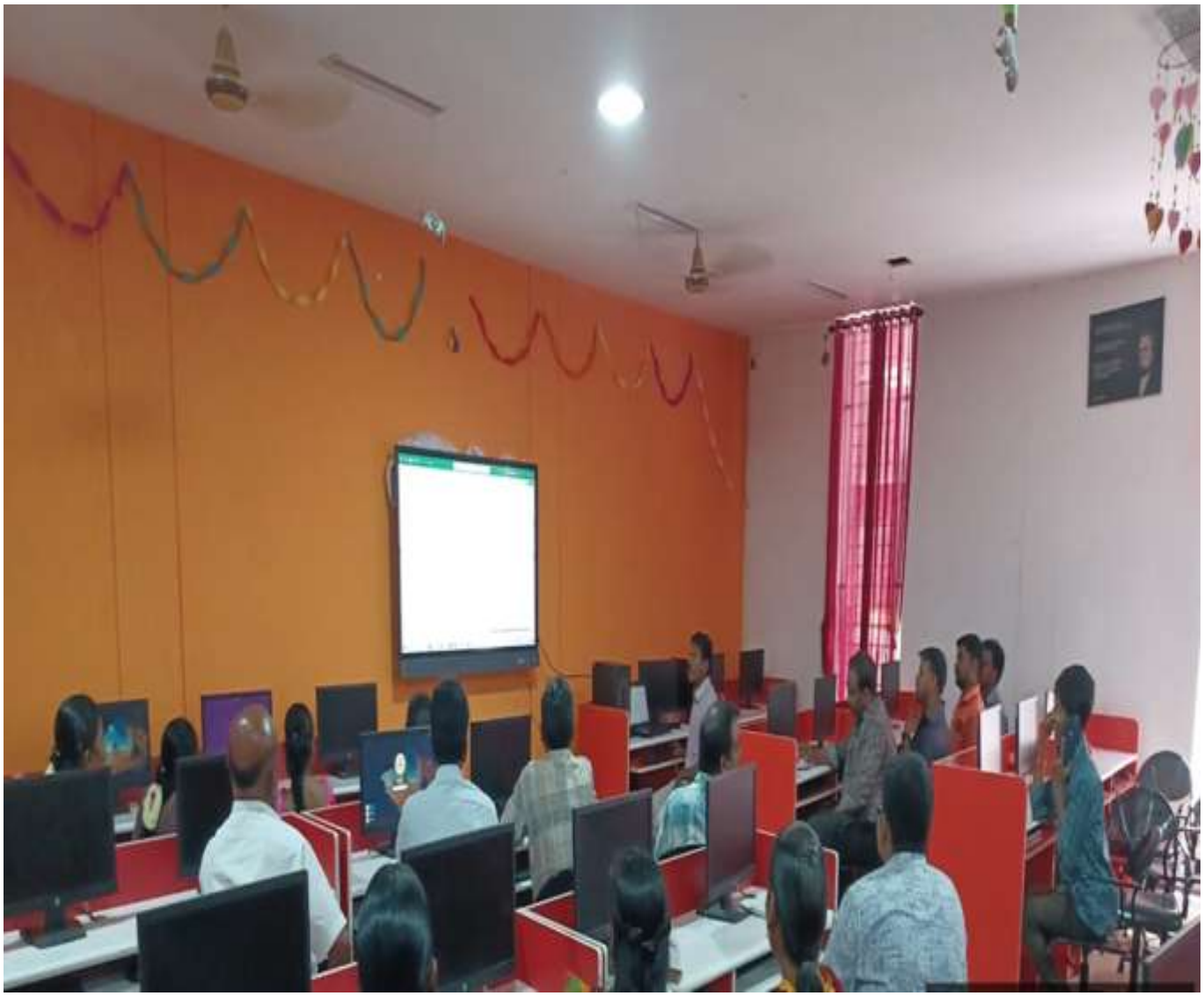
Name of the Faculty : Mr. K. Karthikeyan, Mr.B.Bharathikannan	
Department : CSE	Designation : Assistant professors
Name of the Event : Hands on workshop on Network Concepts	
Level :College Level	
Venue / Mode : CSE LAB/ Offline mode	
No. of Days : 01	Date : 17.02.24
Funded by : Nil	
No. of Participants : 15	Registration charges (if any) :Nil
Name and Designation of Resource Person(s) : Mr.R.Jayaraj , Associate Professor/ CSE	
Outcome : Non-Teaching Staff are educated in Network Concepts	
Remarks and Feedback on the Event : The session was very informative for Non –Teaching Faculties	
Plan of Implementing in HiCET (if any) : Not applicable	

Signature of the Faculty

HoD

Principal

Photograph of Event :



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Report for the Professional development Program

Name : Mr.D.Vijayanandh, Ms.N.Kavitha & Mr.M.Sudagar	
Department : EIE	Designation : Assistant Professor
Name of the Event: **Awareness Workshop on usage of Virtual Labs**	
Level : National Level	
Venue / Mode: Offline	
No. of Day : 1	Dates : 20.09.2023
Funded by : -	
No. of Participants : 18	Registration charges (if any) :-
Name and Designation of Resource Person(s) : Ms.N.Kavitha Assistant Professor Department of EIE, HICET	
Outcome : • Created awareness on the features of virtual labs with animations and contents framed by IIT Bombay • Enhanced the designing skills of the students • Inculcated the utility of the virtual labs for different sets of practicals	
Remarks and Feedback on the Event: Students felt the session was informative and undertaken the hands on session for the Electronics Laboratory and understood the basic concepts	
Plan of Implementing in HiCET (if any) : -	
Signature of the Faculty HoD Principal	

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Department of Electronics and Instrumentation Engineering

Organises

Awareness Workshop on usage of Virtual Labs

Resource Person

Ms.N.Kavitha
Assistant Professor/EIE
Hindusthan College of Engineering and Technology

Date:20.09.2023
Time: 10.00 am to 12.30 pm

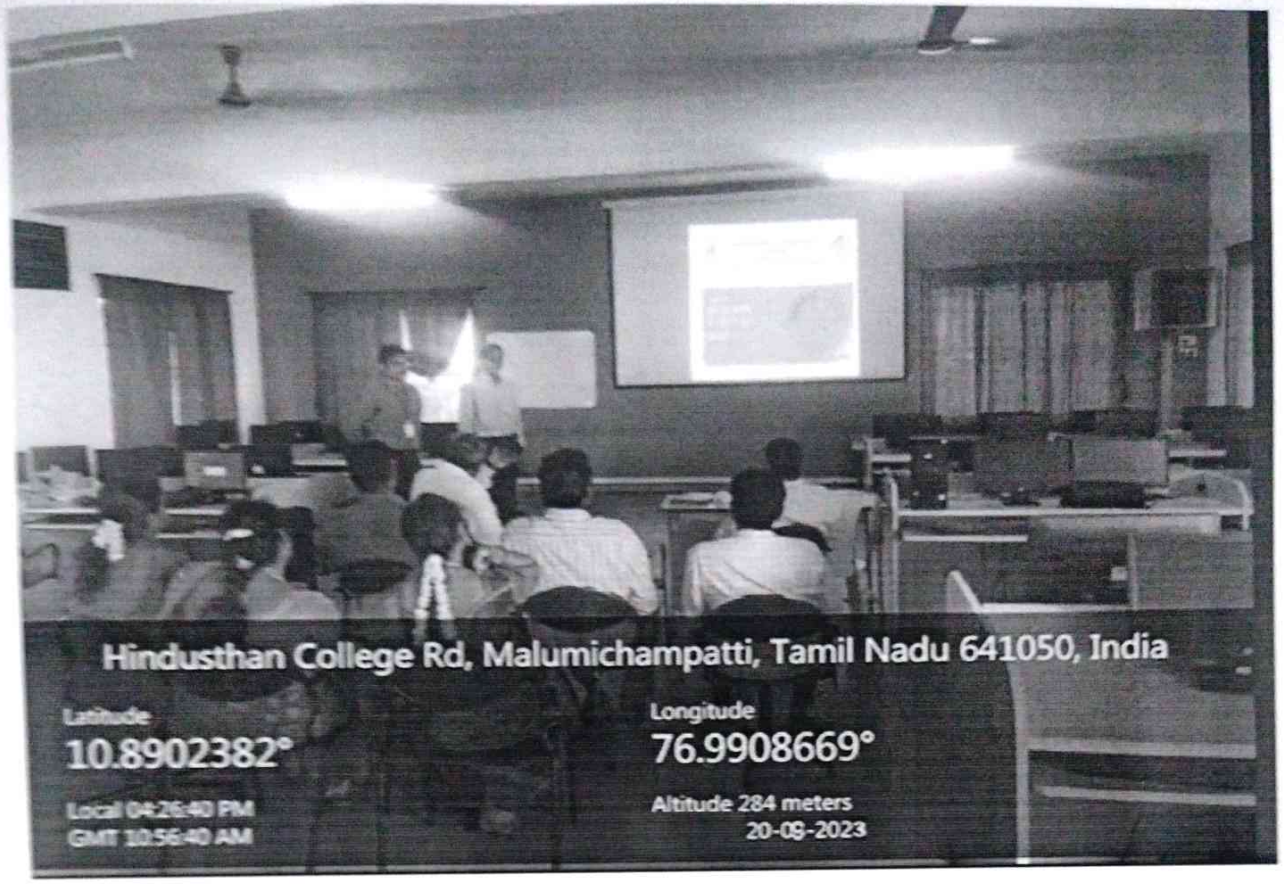
Coordinators
Ms.N.Kavitha AP/EIE
Mr.M.Sudagar AP/EIE

Convener
Dr.B.Anand
Prof.& Head/EIE

Principal
Dr.J.Jaya

CEO
Dr.K.Karunakaran

Geo Tagged Photographs of Event – 2 Nos:





Attendance

S.NO	NAME OF THE FACULTY	DEPT	SIGNATURE
1.	Dr. P. MONIYA / AP	EIE	
2.	M. Sudagar	EIE	
3	Dr. K. Sekar	EEE	
4	N. Mahesh kumar	EEE	
5	E. Nandhini	EEE	
6	Viswanathan M P	EEE	
7	D. Deiva Sigamani	EIE	
8	Dr M Kanagaraj	MCT	
9	KAVITHA	EIE	
10	G Muthumani	EEE	
11	K. Saravanakumar	EEE	
12	Joshua Samuel	EEE	
13	Dr. K. MATHAN	EEE	
14	R. Vinoth kumar / AP	EIE	
15	D. Vijayaraghavan	EIE	
16	Nandhakishore	MCT	
17	P. N. KARTHIKEYAN	AERO	
18	GIRISH	MAT	

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Report on Professional development Program

Name of the Faculty:D.Vijayanandh, Dr.P.Moniya, R Vinoth Kumar	
Department :EIE	Designation : Assistant Professor
Name of the Event:Seminar on "Understanding the Role of Human Values in Education"	
Level : College Level	
Venue / Mode:HICET / Offline	
No. of Days :1	Date: 18.08.2023
Funded by :	
No. of Participants :15	Registration charges (if any) : NIL
Name and Designation of Resource Person(s) : Mr.R.Vinoth kumar Assistant Professor/EIE	
Outcome :The participants understood the basic human values and its importance in education sector. It's necessity and implementation were also analyzed.	
Remarks and Feedback on the Event:The seminar was an eye opener for the need of universal human values in education	
Plan of Implementing in HiCET (if any) :-	

Signature of the Faculty HoD Principal

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COIMBATORE - 641 032.

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Approved by AICTE, New Delhi, Accredited with 'A' Grade by NAAC
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Coimbatore - 641032

HICET

Department of Electronics and Instrumentation Engineering

Seminar on "Understanding the Role of Human Values in Education"

Resource Person

Mr.R.Vinoth Kumar
Assistant Professor
EIE Department, HiCET

Coordinators
Dr.P.Moniya AP/EIE
R Vinoth Kumar AP/EIE

Date : 18/08/2023

Venue : CSE Seminar Hall

Convener
Dr B Anand
HoD/EIE

Dr.J.Jaya
Principal

Patrons
Dr.K.Karunakaran
CEO

Geo Tagged Photographs of Event:



Attendance

S.NO	NAME OF THE FACULTY	DEPT	SIGNATURE
1.	M. Sudagar	AP/EIE	
2.	Dr. P. MONIYA / AP	EIE	
3	D. Vijayananth	EIE	
4	Deivasigamani	EIE	
5	G. Muthuram	EEE	
6	Joshua Daniel	EEE	
7	Viswanathan. M.P	EEE	
8	NANDHINI	EEE	
9	Kavitha	EIE	
10	Saravana kumar	EEE	
11	Maheshkumar.N	EEE	
12	Dr. Sekar. K	EEE	
13	Dr. Mathan. K	EEE	
14	R. Vinoth kumar / AP	EIE	
15	Dr. [illegible]	MCT	

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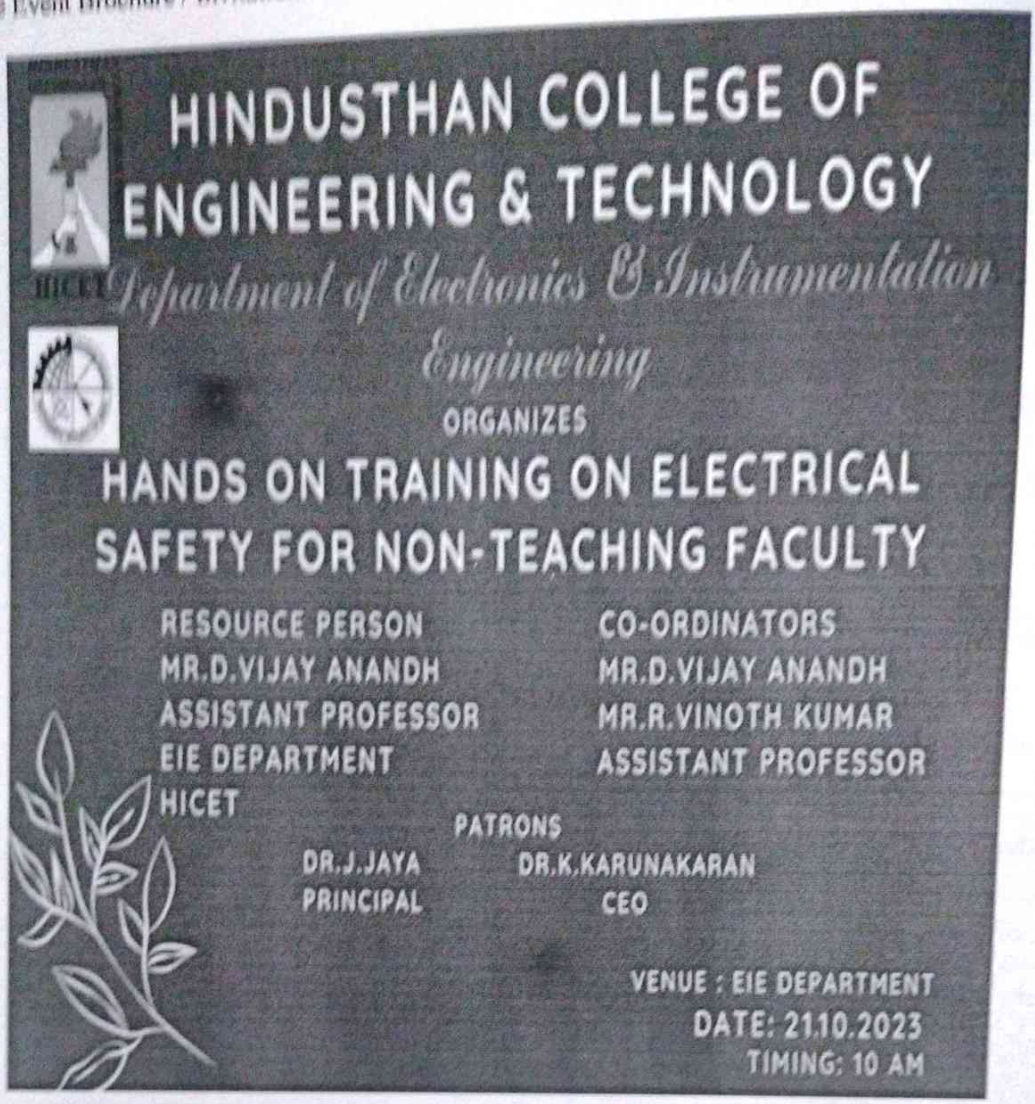
Hands on training on "Electrical Safety" for Non Teaching faculty

Name of the Faculty: D.Vijayanandh, R Vinoth Kumar	
Department :EIE (ISOI)	Designation : Assistant Professor
Name of the Event:Hands on training "Electrical Safety" for Non Teaching faculty	
Level : College Level	
Venue / Mode:HICET / Offline	
No. of Days :1	Date: 21.10.2023
Funded by :	
No. of Participants :15	Registration charges (if any) : NIL
Name and Designation of Resource Person(s) : Mr.D.Vijayanandh, AP/EIE HICET	
Outcome :Electrical Safety concepts and the demonstration of equipments used for it was delivered for the non teaching faculty	
Remarks and Feedback on the Event:15 Non Teaching faculty actively participated and learnt the basics of electrical safety	
Plan of Implementing in HiCET (if any) :-	

Signature of the Faculty | HoD | Principal

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Geo Tagged Photographs of Event:





Attendance

S.NO	NAME OF THE FACULTY	DEPT	SIGNATURE
1	S.T. JESURAJAN	MECH	S.T.J.
2	R. Sivasankari	EEE	
3-	S. Ambiga	ECE	
4.	N. Nagaraj	BSH	N. Nagaraj
5	S. Senthilkumar	AERO	
6	K. Gowthamy	EIE	K. Gowthamy
7	G.A. Manojan	AERO	
8.	P. Usharani	MCA	P. Usha
9.	M. Savitha	S&H	M. Savitha
10.	P. Dhanakasan	S&H.	
11.	K. Aravindhan.	MCA	K. Aravindhan
12.	S. Muniasamy	ECE	

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Report for Seminar.

Name of the Faculty : D.Vijayanandh, D.Deivasigamani	
Department : EIE	Designation : Assistant Professor
Name of the Event: Seminar on "Standards and Calibration" for Non Teaching Staff	
Level : Department Level	
Venue / Mode: EIE Lab / Physical	
No. of Days : 1	Date : 23.08.2023
Funded by : -	
No. of Participants : 12	Registration charges (if any) : NIL
Name and Designation of Resource Person(s) : Dr. Karpagam, Prof / EIE D.Vijayanandh, AP / EIE	
Outcome : At the end of the session they learnt how to calibrate the ammeter and voltmeter.	
Remarks and Feedback on the Event: Awareness given to all Non-Teaching Staff about Standards and Calibration. Training also provided on Calibration.	
Plan of Implementing in HiCET (if any) : -	
Signature of the Faculty HoD Principal	

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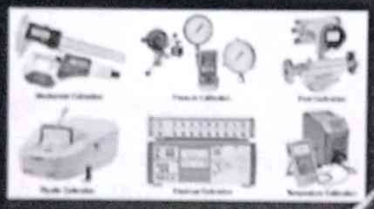
Department of Electronics and Instrumentation Engineering

in association with IQAC

Organizes

Seminar on Standards and Calibration

for All Non Teaching Staff



VENUE:
EIE Smart Classroom

Date: 23.08.2023
Time: 10.30 a.m to 04.30 pm

Coordinators	Convenor	Principal	CEO
Mr.D.Vijayanandh, AP/EIE Mr. D.Deivasigamani, AP/EIE	Dr.B.Anand HOD/EIE	Dr.J.Jaya HICET	Dr.K.Karunakaran

Geo Tagged Photographs of Event





Attendance

S.NO	NAME OF THE FACULTY	DEPT	SIGNATURE
1	G.A. Murugan	AERO	
2.	S.T. JESURAJAN	MECH	
3	R. Sivasankari	EEE	
4.	S. Ambiga	ECE	
5.	G. Senthil Kumar	Aero	
6.	N. Nagaraj	AIML	
7.	P. Usharani	MCA	
8.	M Vinotha	S&H	
9.	K. Aravindhan.	MCL	
10.	S. Muniasamy	ECE	
11.	P. Dhinakaran	S&H.	
12.	K. Gowthamy	EIE	

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