


6.3.3 Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

Dates (from-to) (DD-MM-YYYY)	Title of the professional development program organised for teaching staff	Title of the administrative training program organised for non-teaching staff	No. of participants
<b>Department of Artificial Intelligence &amp; Machine Learning</b>			
Nil			
<b>Department of Basic Science and Humanities</b>			
Nil			
<b>Department of Civil Engineering</b>			
19.06.23 to 23.06.23	FDP on Technological Advancements in Civil Engineering		222
02.06.23& 03.06.23	3rd International Conference On Advancements And Recent Trends In Civil Engineering (ICART-2023)		300
<b>Department of Chemical Engineering</b>			
Nil			
<b>Department of Computer Science and Engineering</b>			
03.06.22& 04.06.22	4th International Conference On Computational Intelligence and Digital Technologies (ICCIT-2K22)		216
24.01.23 to 26.01.23	FDP on Data Science using Python		39
<b>Department of Electrical and Electronics Engineering</b>			
7.06.2023	Expert Talk on Innovation Start up Ecosystem Enablers in association with IIC and IEDC		50
24.05.2023	Expert Talk on IPR and IP Mangement for Start up in association with IIC and IEDC		53
30.1.2023 to 2.02.2023	FDP on Recent Trends in grid integration		35
2.12.2022	Inauguration of EEE Association and Seminar on Smart Grid		115
30.11.2022	Workshop on Problem Solving and Ideation		110
<b>Department of Electronics and Communication Engineering</b>			
18/11/2022 to 22/11/2022	Innovations, IPR's & Optimisation in Electronic Designs with Energy Systems		45
12/4/2023 to 13/4/2023	ICCEVE (international Conference )		56
<b>Department of Mechanical Engineering</b>			
08.06.2023- 09.06.2023	International conference on Advances in Mechanical Engineering: Transcending Boundaries ICAMET 23		25
<b>Department of Master of Business Administration</b>			
Nil			

  
Criteria Coordinator

  
Principal  
ANGALAM COLLEGE OF ENGINEERING  
Ettimamoor

6.3.3 Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

Dates (from-to) (DD-MM-YYYY)	Title of the professional development program organised for teaching staff	Title of the administrative training program organised for non-teaching staff	No. of participants
19.06.23 to 23.06.23	FDP on Technological Advancements in Civil Engineering		222
02.06.23& 03.06.23	3rd International Conference On Advancements And Recent Trends In Civil Engineering (ICART-2023)		300

  
HOD/CE

  
Dept. NAAC Co-ordinator



  
Dept. Criteria Coordinator

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ANGALAM COLLEGE OF ENGINEERING  
Ettumanoor



From

Dr Asha P Tom  
Organizing Secretary  
Faculty Development Programme  
Civil Engineering Department

To

The Principal  
Mangalam College of Engineering


Sub: Permission to conduct 5 day faculty development programme in online mode in the civil engineering department.

Respected Sir

I Dr Asha P Tom would like to organize a faculty development programme in civil engineering department. Here by I request you to give us permission to conduct a five day faculty development programme in the online mode. The programme is planned from 19<sup>th</sup> June 2023 to 23<sup>rd</sup> June 2023. The details of the programme are attached herewith. Kindly grant us the permission to conduct the same.

Thanking You

Yours faithfully

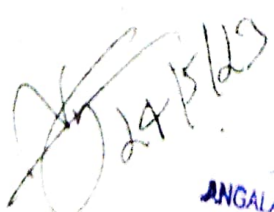
  
Dr Asha P Tom

Organizing Secretary, FDP

  
Dr D. Rameshkumar

HOD, Convenor FDP

23-05-2023 . .

  
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## PROPOSAL FOR FACULTY DEVELOPMENT PROGRAMME

### Objective

Organize five day online Faculty Development Programme(FDP) in the field of civil engineering.

**Technical field of proposal:**CIVIL ENGINEERING

**Title of FDP:** "TECHNOLOGICAL ADVANCEMENTS IN CIVIL ENGINEERING"

### Abstract


The proposed faculty development programme is to enhance the knowledge of faculties towards recent technological advancements in the field of civil engineering. It is expected to make them aware about modern teaching tools and methodologies. Channelization of recent technological development with respect to academic qualifications in various fields of civil engineering is inevitable for faculty development. The lectures covering technological advancements in various fields of civil engineering like structural, geotechnical, transportation, environmental and sustainable development in engineering is to be delivered in this programme. It is expected to increase the knowledge level of the faculties and improve the teaching learning process.

### Expected Outcome

Faculties become acquainted towards latest technological developments in civil engineering.

### Programme details

Date	Time	Activity	Venue	Infrastructure requirements
19-06-2023	10 AM-12PM	Lecture	Online mode	
20-06-2023	10 AM-12PM	Lecture		
21-06-2023	10 AM-12PM	Lecture		
22-06-2023	10 AM-12PM	Lecture		
23-06-2023	10 AM-12PM	Lecture		

 ANGALAM COLLEGE OF ENGINEERING  
ERODE

Eminent personalities expected to participate

Name	Designation	Organization	Activity
Dr. Vivek R Das	Associate Professor	MSRIT, Bangalore	Lecture
Dr. Prawin J	Senior Scientist	CSIR-SERC, Chennai.	Lecture
Dr VaisakhGopinathan	Assistant Engineer	Kerala PWD	Lecture
Dr Reshma E K	Assistant Professor	DayanandaSagar College of Engineering, Bangalore.	Lecture
Sri Anush PC	HOD Civil Engineering	Adi Shankara Institute of Engg + Tech	Lecture

  
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ANGALAM COLLEGE OF ENGINEERING  
Ettumanoor



## ABOUT THE INSTITUTION

Mangalam as a sole proprietary concern came into being in April 1969 under the initiative of late Mr. M. C. Varghese, a great visionary with social commitment and dedication. Mangalam College of Engineering & Technology is one of the most prestigious and preferred institutions of Kerala and is established in 2002. Mangalam College of Engineering (MLM) stands supreme in the field of technical education with excellence and quality in education. The academic programs are supported by well experienced and dedicated faculty, which is committed to equip the student with knowledge and skills needed to succeed in today's rapidly changing world. Approved by the All India Council for Technical Education (AICTE) and affiliated to the A P J Abdul Kalam Technological University in Kerala, MLM is promoted by the Mangalam Educational Society, with a mission to bring out leaders for a technology driven environment. With the completion of 20 years of excellence, the institution has put tremendous efforts to provide the best facilities for the attainment of quality Technical Education..

## ABOUT THE DEPARTMENT

The Department of Civil Engineering is very keen on nurturing the skills of students and faculty members to contribute to the society. It is engaged in a wide range of technical activities to help promote personal development to ensure our students' industry acceptability for career.

## DEPARTMENT VISION

To emerge as a knowledge centre in civil engineering education focusing on research and industry outreach services with an emphasis on sustainable development.

## DEPARTMENT MISSION

- To develop skilled engineers with strong professional, moral and ethical values.
- To provide a facilitating environment for nurturing the skills of students to contribute efficiently to the industry and research.
- To motivate and equip the faculty with constant knowledge upgradation.

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ETIMBENGOOR

## Important Dates

Last date for online registration: 15/06/2023

Intimation of selection: 17/06/2023

- ◆ FDP will be conducted in Online mode in google platform
- ◆ Meeting link and the details will be shared only to the registered candidates

## Eligibility

Faculty members, Research Scholars and PG Students can participate.

## How to Apply

In this FDP Participants can register through the link given below. There is no registration fee. The numbers of participants are limited to 100 and participants will be selected on first come first serve basis.

## Registration Link

<https://forms.gle/2Ywb1Q2nTuBTRaW6>



Mangalam College of Engineering

Organizing  
5 day FDP

on

TECHNOLOGICAL  
ADVANCEMENTS IN  
CIVIL ENGINEERING

19<sup>th</sup> June – 23<sup>rd</sup> June 2023

Organized by  
Department of Civil  
Engineering

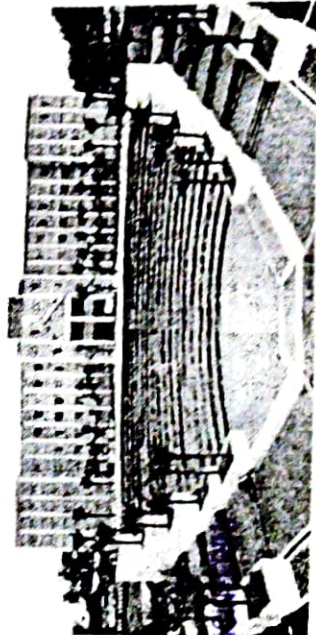


MANGALAM COLLEGE OF ENGINEERING

Accredited by NAAC & ISO 9001:2008 Certified Institution

AUTHORITY FOR ENGINEERING EDUCATION (AICTE) MANAGED BY MANGALAM EDUCATIONAL SOCIETY  
AICTE APPROVED, GOVT. LISTED, UGC RECOGNIZED, APJ K. J. SOMAYAJI FELLOWSHIP AWARDED, ISO 9001:2008 CERTIFIED

Mangalam offers B.Tech Program in Computer Science and Engineering, Civil Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Mechanical Engineering, Chemical Engineering, Architecture (Undergraduate and Postgraduate), M.Tech Program in Computer Science and Engineering, Chemical Engineering, Architecture (Undergraduate and Postgraduate), M.Tech Program in Management, M.Tech Program in Mechanical Engineering, M.Tech Program in



## COURSE OBJECTIVES

- This course provides comprehensive knowledge about various technological advancements in civil engineering.
- This course will cover the Current developments and research undergoing in civil engineering.
- This course will make the participants aware about the outcome of technological advancements in various branches of civil engineering.

## COURSE CONTENTS

- Advanced Technologies in Transportation Engineering.
- Technological Developments in Structural Engineering.
- Sustainable Civil Engineering Practices.
- Environmental Engineering research and developments.

## ORGANIZING COMMITTEE

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Dr Biju Varghese  
Chairman

### Patron

Dr. Vinodh P Vijayan,  
Principal.  
Mangalam College of Engineering

### Convener

Dr. D Ramesh Kumar  
HOD & Professor  
Department of CE, MLMCE

### Organizing Secretary

Dr Asha P Tom  
Associate Professor  
Department of CE  
Contact number: 9744910087  
Email: asha.tom@mangalam.in

## RESOURCE PERSONS

Dr. Vivek R Das  
Associate Professor  
Department of Civil  
Engineering  
MSRIT, Bangalore.

Dr Prawin J  
Senior Scientist  
CSIR\_SERC Chennai.

Dr Reshma E K  
Assistant Professor  
DSCE, Bangalore.

Dr Vaisakh G  
Assistant Engineer  
Kerala PWD.

Sri Aneesh P C  
HOD, Civil Engineering  
Adishankara Institute of Engineering &  
Technology  
Kerala.

  
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MANGALAM COLLEGE OF ENGINEERING  
Erumangor







**MANGALAM COLLEGE OF ENGINEERING**  
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**DEPARTMENT OF CIVIL ENGINEERING**  
**5 DAY FACULTY DEVELOPMENT PROGRAMME ON**  
**"TECHNOLOGICAL ADVANCEMENTS IN CIVIL ENGINEERING"**

**ONLINE PROGRAMME SCHEDULE**

<b>Day/Time</b>	<b>Programme</b>
19/06/2023, 10:00 am -12 pm	"Self-Curing Concrete" Dr Vaisakh G Assistant Engineer Kerala PWD.
20/06/2023, 10:00 am -12 pm	" Vibration Based Structural Health Monitoring of Bridges" Dr Prawin J Senior Scientist CSIR, SERC Chennai.
21/06/2023, 10:00 am -12 pm	"Sustainable Cement Concrete Pavements Using Construction and Demolition Waste" Dr Reshma E K Assistant Professor DSCE, Bangalore.
22/06/2023, 10:00 am -12 pm	"Traffic Performance at Signalized Intersection" Dr. Vivek R Das Associate Professor, Department of Civil Engineering, MSRIT, Bangalore.
23/06/2023, 10:am-12 pm	" Sustainable Solutions to Environmental Problems" Sri Aneesh P C HOD, Civil Engineering Adishankara Institute of Engineering& Technology, Kerala.

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Ettumanoor



7/13/23, 11:26 PM

Mangalam College of Engineering, Kerala - India. Mail - Invitation as resource person for faculty development programme

"Do not dwell in the past, do not dream of the future, concentrate the mind on the present moment"- Gautama

Buddha

Dr.Asha P. Tom <asha.tom@mangalam.in>  
To: reshma-cvl@dayanandasagar.edu

Mon, Jun 5, 2023 at 10:00 PM

From  
Dr. Asha P Tom  
Associate Professor  
Civil Engineering Division  
Mangalam College of Engineering  
Ettumanoor, Kerala.

To  
Sri Reshma E K  
Assistant Professor  
Department of Civil Engineering  
DSCE, Bangalore.

Dear Mam

It is our immense pleasure to invite you as a resource person for a five day faculty development Programme to be conducted in department of civil engineering. The Topic of FDP is " Technological Advancements in Civil Engineering" and the planned date of FDP is from 19-06-2023 to 23-06-2023.

Kindly accept our invitation and suggest a date of your convenience for presentation (22 & 20 engaged).  
{Quoted text hidden}

Dr.Asha P. Tom <asha.tom@mangalam.in>  
To: pwdbuildingdkt@gmail.com

Mon, Jun 5, 2023 at 10:29 PM

From  
Dr. Asha P Tom  
Associate Professor  
Civil Engineering Division  
Mangalam College of Engineering  
Ettumanoor, Kerala.

To  
Assistant Engineer  
PWD Kottarakara

Dear Sir

It is our immense pleasure to invite you as a resource person for a five day faculty development Programme to be conducted in department of civil engineering. The Topic of FDP is " Technological Advancements in Civil Engineering" and the planned date of FDP is from 19-06-2023 to 23-06-2023. Please find the attached brochure.

Kindly accept our invitation and suggest a date of your convenience for presentation and we suggest dates 19-06-2023, 21-06-2023, 23-06-2023 . (20 and 22 engaged). (We are planning for two hour talk from morning 10-12 , including discussion).  
{Quoted text hidden}

19-06-2023 11:28 AM

Mangalam College of Engineering Kerala - India Mail - Invitation as resource person for faculty development programme



Dr.Asha P. Tom <asha.tom@mangalam.in>

### Invitation as resource person for faculty development programme

10 messages

Dr.Asha P. Tom <asha.tom@mangalam.in>  
To: vivekdurgadath@gmail.com

Fri, Jun 2, 2023 at 3:47 AM

From  
Dr. Asha P Tom  
Associate Professor  
Civil Engineering Division  
Mangalam College of Engineering  
Ettumanoor, Kerala.

To  
Dr Vivek R Das  
Associate Professor  
Department of Civil Engineering  
MSRIT, Bangalore.

Dear Sir

It is our immense pleasure to invite you as a resource person for a five day faculty development Programme to be conducted in department of civil engineering. The Topic of FDP is "Technological Advancements in Civil Engineering" and the planned date of FDP is from 19-06-2023 to 23-06-2023.

Kindly accept our invitation and suggest a date of your convenience for presentation.

Thanking you  
Yours Faithfully  
Dr. Asha P Tom

Vivek R Das <vivekdurgadath@gmail.com>  
To: "Dr.Asha P. Tom" <asha.tom@mangalam.in>

Thu, Jun 1, 2023 at 3:43 AM

Madam,

Thank you for the invitation and I accept the same. I would like to make a presentation on 22.06.2023.

With Regards

Vivek R Das  
(Quoted text hidden)

MANGALAM COLLEGE OF ENGINEERING  
Ettumanoor

Dr.Vivek R Das (PhD IIT Roorkee),  
Associate Professor,  
Department of Civil Engineering,  
MSRIT, Bangalore - 560054  
Email - vivekdurgadath@gmail.com  
Ph - 9886082091

It is our immense pleasure to invite you as a resource person for a five day faculty development programme to be conducted in department of civil engineering. The Topic of FDP is " Technological Advancements In Civil Engineering" and the planned date of FDP is from 19-06-2023 to 23-06-2023. Please find the attached brochure.

Kindly accept our invitation and it will be helpful if you select 20-06- 2023 for presentation ( talk time morning 10am-12 pm).

[Quoted text hidden]

 fdp-mlm civil-brochure-revised.pdf  
400K

Dr.Asha P. Tom <asha.tom@mangalam.in>

To: "hod.ce@adishankara.ac.in" <hod.ce@adishankara.ac.in>

Mon, Jun 5, 2023 at 10:49 PM

From

Dr. Asha P Tom  
Associate Professor  
Civil Engineering Division  
Mangalam College of Engineering  
Ettumanoor, Kerala.

To

Sri Aneesh P C  
HOD, Civil Engineering Department  
Adishankara Institute of Engineering and Technology

Dear Sir

It is our immense pleasure to invite you as a resource person for a five day faculty development Programme to be conducted in department of civil engineering. The Topic of FDP is " Technological Advancements in Civil Engineering" and the planned date of FDP is from 19-06-2023 to 23-06-2023. Please find the attached brochure.

Kindly accept our invitation and it will be helpful if you select 21-06- 2023 for presentation (talk time morning 10am-12 pm).

[Quoted text hidden]



7/13/23, 11:28 AM

Mangalam College of Engineering, Kerala - India. Mail - Invitation as resource person for faculty development programme

📎 fdp-mlm civil-brochure-revised.pdf  
400K

Dr. Asha P. Tom <asha.tom@mangalam.in>  
To: pvdbuildingsktr@gmail.com

Wed, Jun 7, 2023 at 9:11 PM

From  
Dr. Asha P Tom  
Associate Professor  
Civil Engineering Division  
Mangalam College of Engineering  
Ettumanoor, Kerala.

To  
Assistant Executive Engineer  
PWD Kottarakara

Dear Sir

It is our immense pleasure to invite Dr Vaisakh G as a resource person for a five day faculty development Programme to be conducted in department of civil engineering. The Topic of FDP is " Technological Advancements in Civil Engineering" and the planned date of FDP is from 19-06-2023 to 23-06-2023. Please find the attached brochure.

Kindly accept our invitation and depute Dr Vaisakh G on 19-06-2023 for this programme. We will give assurance that the programme will be concluded by afternoon.  
[Quoted text hidden]

📎 fdp-mlm civil-brochure-revised.pdf  
400K

PRAWIN J <prawinj@serc.res.in>  
To: asha tom <asha.tom@mangalam.in>

Wed, Jun 7, 2023 at 9:21 PM

Dear Dr. Asha P Tom,

Many Thanks for your kind invitation. I am pleased to accept the invitation as a resource person for FDP course. I will give my talk on the said date and time.

Regards

Prawin J

Senior Scientist,

CSIR-Structural Engineering Research Centre (SERC),  
Taramani, Chennai - 600 113.

Google Scholar link: [https://scholar.google.com/citations?hl=en&user=syc8fYAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=en&user=syc8fYAAAAJ&view_op=list_works&sortby=pubdate)

Profile link : <https://serc.res.in/dr-prawin-j>

Linkedin: <https://www.linkedin.com/in/prawin-jayakumar-032a636b/>

Contact: 044 2254 5734 (O); +91 9600389349 (M)

From: "asha tom" <asha.tom@mangalam.in>

To: "PRAWIN J" <prawinj@serc.res.in>

Sent: Tuesday, June 6, 2023 11:14:04 AM

Subject: Fwd: Invitation as resource person for faculty development programme  
[Quoted text hidden]

ANGALAM COLLEGE OF ENGINEERING  
Ettumanoor

<https://mail.google.com/mail/u/1/?ik=d72acef12a&view=pt&search=all&permthid=thread-a:r-248028580116015778&siml=msg-a:r328747836942464...> 5/5

Ettumanoor

7/13/23, 11:28 PM

Mangalam College of Engineering, Kerala - India. Mail - Invitation as resource person for faculty development programme

fdp-mim civil-brochure-revised.pdf  
400K

Mail Delivery Subsystem <mailer-daemon@googlemail.com>  
To: asha.tom@mangalam.in

Sun, Jun 4, 2023 at 9:59 PM



## Address not found

Your message wasn't delivered to **pwdbuildingdktr@gmail.com** because the address couldn't be found, or is unable to receive mail.

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The response was:

550 5.1.1 The email account that you tried to reach does not exist. Please try double-checking the recipient's email address for typos or unnecessary spaces. Learn more at [https://support.google.com/mail/?p=NoSuchUser\\_q23-20020a05651232b700b004f0030ed42dsor16303291fe.7-gsmtp](https://support.google.com/mail/?p=NoSuchUser_q23-20020a05651232b700b004f0030ed42dsor16303291fe.7-gsmtp)

Final-Recipient: rfc822; pwdbuildingdktr@gmail.com

Action: failed

Status: 5.1.1

Diagnostic-Code: smtp; 550-5.1.1 The email account that you tried to reach does not exist. Please try

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550-5.1.1 unnecessary spaces. Learn more at

550 5.1.1 [https://support.google.com/mail/?p=NoSuchUser\\_q23-20020a05651232b700b004f0030ed42dsor16303291fe.7-gsmtp](https://support.google.com/mail/?p=NoSuchUser_q23-20020a05651232b700b004f0030ed42dsor16303291fe.7-gsmtp)

Last-Attempt-Date: Sun, 04 Jun 2023 21:59:22 -0700 (PDT)

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

From: "Dr.Asha P. Tom" <asha.tom@mangalam.in>

To: pwdbuildingdktr@gmail.com

Cc:

Bcc:

Date: Mon, 5 Jun 2023 22:29:16 -0700

Subject: Fwd: Invitation as resource person for faculty development programme

----- Message truncated -----

Dr.Asha P. Tom <asha.tom@mangalam.in>

To: "pwdbuildingdktr@gmail.com" <pwdbuildingdktr@gmail.com>

Mon, Jun 5, 2023 at 10:36 PM

(Quoted text hidden)

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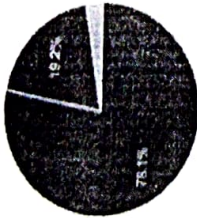
7/13/23 11:33 PM

FDP - TECHNOLOGICAL ADVANCEMENTS IN CIVIL ENGINEERING - Feedback for session on 23/06/2023

Relevance of topic

224 responses

Copy

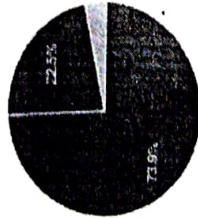


- Excellent
- Very Good
- Good
- Satisfactory

Learning objectives and outcomes

222 responses

Copy

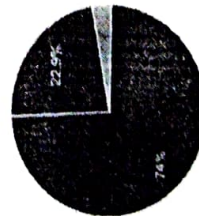


- Excellent
- Very Good
- Good
- Satisfactory

Organization of Lecture and Planning

223 responses

Copy



- Excellent
- Very Good
- Good
- Satisfactory

33

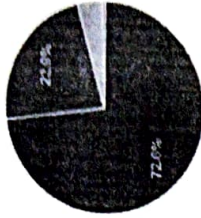
7/13/23 11:33 PM

FDP - TECHNOLOGICAL ADVANCEMENTS IN CIVIL ENGINEERING - Feedback for session on 23/06/2023

Contribution of lecture to your skill/knowledge

223 responses

Copy



- Excellent
- Very Good
- Good
- Satisfactory

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Handwritten signature



Any other suggestions/What aspects of these lectures were most valuable

1:38 responses

Nil

Good

No

NA

Good

Nil

Nothing

GOOD

It was a truly informative and inspiring knowledge sharing session. Thank you very much.

good

Excellent

Na

Useful

Thank you organisers for wonderful session.

Type of pollution

Good session

Thank You

No suggestion

PRINCIPAL  
ANGALAM COLLEGE OF ENGINEERING  
Ettimangudi

Very informative

Very good

Useful session

Very informative

no

Need more explanation

V good

Good informative session

Good lecture

Informative session

QGIS for water quality content was best

organized manytimes

Everything is fine

Water Pollution

Good presentation

Keep conducting such programs

Very informative and nice session

PPT may be shared through email.

It's an excellent presentation and more knowledgeable FDP

If possible with prior permission please share the presentation and recording of all sessions

yes

7/13/23, 11:33 PM

FDP - TECHNOLOGICAL ADVANCEMENTS IN CIVIL ENGINEERING - Feedback for session on 23/06/2023

Very elaborate and informative. Thank you.

Kindly share the ppt

NICE PRESENTATION

Everything is always good

Nothing

No comments

Nil

Session was good and relevant to my field as well Thankyou for such event.

nice presentation

Useful information

Excellent

no sir/mam

Organized anytime

All things are right

VERY INFORMATIVE SESSION

Overall good

Nothing

I UPDATE THE MORE INFORMATION VERY USEFUL TO ME.

Good session

No comment

VERY GOOD SESSION

7/13/23, 11:33 PM

FDP - TECHNOLOGICAL ADVANCEMENTS IN CIVIL ENGINEERING - Feedback for session on 23/06/2023

Health monitoring of bridge is valuable for me

No suggestions

All the aspects

Nip

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Google Forms

Handwritten signature and text in purple ink, including the word "EQUIPMENT" and some illegible scribbles.

# MANGALAM

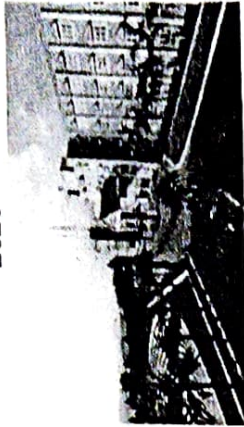
## COLLEGE OF ENGINEERING

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**3<sup>rd</sup> International Conference on  
Advancements and Recent  
Trends in Civil Engineering  
ICART'23**

**2 & 3<sup>rd</sup> June  
2023**



**PUBLICATION**

**IJERT**

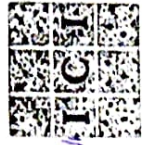
ISSN: 2278-0181  
P-ISSN: 2278-0199

All the accepted papers in the conference will be peer reviewed and conference proceedings will be published in IJERT. Selected papers will be published in SCOPUS indexed journal.

**Organized by**

Department of Civil Engineering,  
Mangalam College of Engineering.

**In association with**



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- Mrs. V. Rani**, Joint Secretary, IGS-Trivandrum chapter.
- Dr. B. Anil**, State Management Committee Member, ISTE - Trivandrum chapter.
- Dr. M. B. Nidhi** - National Executive Council Member, ISTE - Trivandrum chapter.
- Prof. E. C. Ramakrishnan**, Secretary, ISTE - Kerala.
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- Dr. Salini U.Scientist**, KSCSTE-NATPAC, Trivandrum.
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- Dr. S. K. Sekar**, VIT University Vellore.
- Dr. T. Palanisamy**, NIT Surathkal.
- Dr. G. Balaji Ponraj**, KRCE, Trichy.
- Dr. Ravella Durga Prasad**, VNRVJET Hyderabad.
- Dr. S. Kanchidurai**, Sastra University, Thanjavur.

**Contact details:**

The Organizing secretary/ Co-ordinator, ICART '23  
-Department of Civil Engineering, Mangalam College of Engineering,  
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College Road, Mangalam Hills, Vettuvayal, Ettumanoor, Kerala 686631.  
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**ORGANIZING COMMITTEE**

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**Dr. Vinodh P Vijayan**,  
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- Joint Organizing Secretary**  
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- Co-ordinator**  
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- International Advisory Committee**  
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### ABOUT THE INSTITUTION:

Mangalam College of Engineering (MLMCE) stands supreme in technical education with excellence and quality in education. In keeping with MLM's goal of excellence, the academic programs are supported by well experienced and dedicated faculty, committed to equip the student with knowledge and skills need for succeeding in today's rapidly changing world. Approved by the All India Council for Technical Education (AICTE) and affiliated to the APJ Abdul Kalam University, Thiruvananthapuram and accredited by National Assessment and Accreditation Council (NAAC) and MLM is promoted by the Mangalam Educational Society, with a mission to bring out leaders for a technology-driven environment.

### ABOUT THE DEPARTMENT:

The Department of Civil Engineering has been in existence since the inception of MLMCE in 2002. It has emerged into a full-fledged department with the commencement of the Civil Engineering branch in 2010. With the increase in demand for civil engineers, the student intake was raised to 120 seats in 2013. In 2014, an M.Tech programme on Structural Engineering and Construction Management has been established and running successfully.

### VISION OF THE DEPARTMENT

To emerge as a knowledge centre in civil engineering education focusing on research and industry outreach services with an emphasis on sustainable development.

### MISSION OF THE DEPARTMENT

- ❖ To develop skilled engineers with strong professional, moral and ethical values.
- ❖ To provide a facilitating environment for nurturing the skills of students to contribute efficiently to the Industry & Research.
- ❖ To motivate and equip the faculty with constant knowledge upgradation for enhancing the teaching-learning process.

### ABOUT THE CONFERENCE:

Civil Engineers construct the entire world's framework. In doing so, they discreetly shape the historical backdrop of countries around the globe. The vast majority cannot envision existence without Civil Engineers' endless commitment towards public health, safety and way of life. By investigating civil engineering impact in moulding the world today, we can inventively imagine the advancement of tomorrow. High-rise buildings, bridges, subway stations, stunning airports, highways, and hydroelectric dams are the part of the intriguing signs of human development and urbanization which Civil Engineers built.

### Call for Papers

The conference provides a platform for professionals, scientists, academicians, research scholars, students, industrialists and builders to disseminate the information on various aspects related to the themes mentioned below.

### CONFERENCE THEME

The objective of the conference is to address the advancements and enhance the recent trends in Civil Engineering and to make interaction with natural and anthropogenic agents, by viewing its highlights and challenges.

Sustainable/Ecological Engineering	Coastal/Ocean Engineering.
Traffic Engineering and Management	Geotechnical Engineering.
Transportation Engineering	Hybrid Transportation
Light Weight Structures	Composite Structure
Environmental Engineering	Asset Mapping
Construction Engineering/Management	Soil reclamation

Any other original research articles and case studies in the field of Civil Engineering are also invited.

### Important Dates

Last Date for Submission of Full Length Paper : 15.05.2023  
Intimation of Acceptance : 18.05.2023  
Last Date for Registration : 24.05.2023

Full Length Paper shall be sent to [info@icartt.co.in](mailto:info@icartt.co.in) as per the IJERT template.  
Registration fee Details

Delegates Category	Registration Fee
Foreign Delegates	100 US \$
Industry / R&D/ Others	INR 2000.00
Faculty / Academicians Students / Research scholars	INR 1500.00

\* Selected papers will be published in SCOPUS indexed journal with additional charges.

### Publications

All the accepted papers in the conference will be peer reviewed and conference proceedings will be published in IJERT. Selected papers will be published in SCOPUS indexed journal with additional charges. At least one of the authors should be registered for attending the online conference by paying the prescribed registration fee. Authors are requested to kindly refrain from plagiarism in any form.

### GUIDELINES FOR PAPER SUBMISSION:

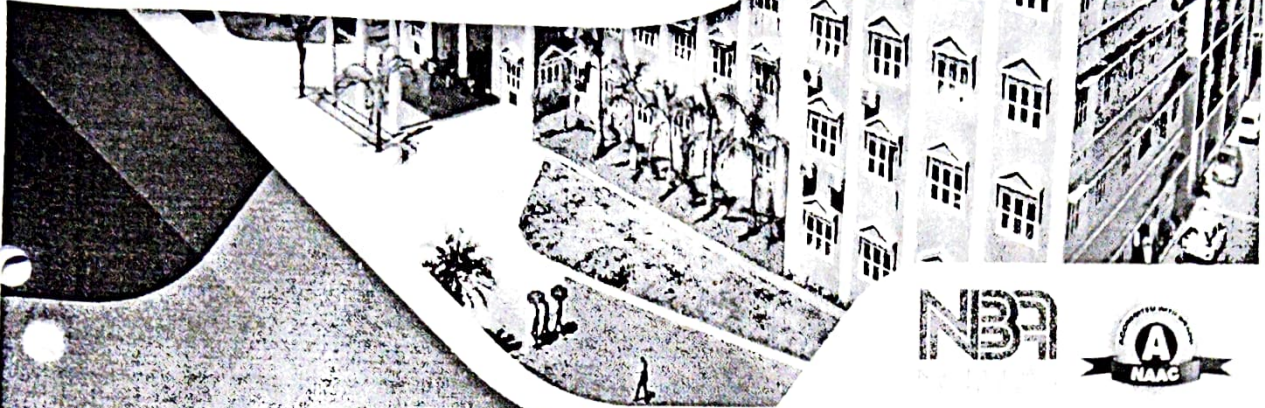
Prospective authors are invited to submit full length papers including results, figures and references in both word (.docx) and PDF (.pdf) format in 4/6 pages, with proper journal template. Papers will be accepted only by electronic submission through [info@icartt.co.in](mailto:info@icartt.co.in)





# MANGALAM COLLEGE OF ENGINEERING

KOTTAYAM, KERALA - 686631  
(Affiliated to KTU, Accredited by NAAC & NBA)



*Cordially invite you to the inauguration of*

# ICART'23

**INTERNATIONAL CONFERENCE ON  
ADVANCEMENTS AND RECENT TRENDS  
IN CIVIL ENGINEERING**

*Dr. Samson Mathew*  
**Inaugural Address**  
**Dr. Samson Mathew**  
Director, National Transportation  
Planning and Research Centre (NATPAC)  
Thiruvananthapuram



**Guest of Honour**  
**Dr. Jayamohan J.**  
Secretary,  
Indian Geotechnical Society (IGS),  
Thiruvananthapuram

b libee

**DATE : 02<sup>nd</sup> June 2023 | TIME : 9.30 a.m. | VENUE : Digital Theater, Mangalam Campus**



- 9.30 am : **Prayer**  
(Qoir team, Department of Civil Engineering)
- 9.35 am : **Welcome address**  
**Dr. D. Ramesh Kumar**  
(Head, Department of Civil Engineering, MLMCE)
- 9.40 am : **Presidential Address**  
**Dr. Biju Varghese**  
(Chairman, Mangalam Educational Society)
- 9.45 am : **Principal's Address**  
**Dr. Vinodh P Vijayan**  
(Principal, Mangalam College of Engineering)
- 9.50 am : **Inaugural Address & Lighting the Lamp**  
**Dr. Samson Mathew**  
(Director - National Transportation Planning and  
Research Centre (NATPAC), Thiruvananthapuram, Kerala)
- 9.55 am : **Guest of Honour Address**  
**Dr. Jayamohan J.**  
(Secretary, Indian Geotechnical Society (IGS),  
Thiruvananthapuram, Kerala)
- 9.58 am : **Releasing the ICART'23 Proceedings**  
**Dr. Samson Mathew**  
(Director - National Transportation Planning and  
Research Centre (NATPAC), Thiruvananthapuram, Kerala)  
**Honouring the Cheif Guest**  
**Ms. Neema George**  
(Vice - Principal, Mangalam College of Engineering)
- 10.00 am : **Vote of Thanks**
- 10.05 am : **High Tea**





**MANGALAM COLLEGE OF ENGINEERING  
DEPARTMENT OF CIVIL ENGINEERING**

**3<sup>rd</sup> International Conference on Advancements and Recent Trends In Civil  
Engineering (ICART'23)**

**Valedictory Ceremony Schedule**

<b>Time</b>	<b>Program</b>
<b>2.30 P.M – 2.35 P.M</b>	<b>Welcoming the guest by Dr.K.ARUNKUMAR</b>
<b>2.35 P.M – 3.00 P.M</b>	<b>Valedictory Speech by Dr.N.Unnikrishnan Head, Departement of Civil Engineering CET, Thiruvananthapuram Chairman IGS, Thiruvananthapuram Chapter.</b>
<b>3.00 P.M – 3.15 P.M</b>	<b>Valedictory Speech by Ms. Rani V Associate Professor, Joint Secretary, IGS, Trivandrum.</b>
<b>3.15 P.M – 3.30 P.M</b>	<b>Vote of Thanks</b>

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**3<sup>rd</sup> International Conference on Advancements and Recent Trends In Civil Engineering (ICART'23)**

Date: 30.05.2023

**Paper Presentation Schedule for Session - I A on 02.06.2023 (Offline)**

S.No	ID	Paper Title	Authors	Theme	Time
1	MC21	Experimental Study on Physical Properties of Bitumen Using Waste Engine oil And Waste Cooking Oil	Athira Haridas, Chichu Babu, Geethu Subash, Vidyha Mohan	Transportation & Traffic Engineering	11.30 am-11.40 am
2	MC25	Dairy Waste Water Treatment by using Natural Coagulants- A Review	Bibin Varghese, Arya N R, Asha P Tom	Environmental Engineering	11.40 am-11.50 pm
3	MC30	STRENGTH ASSESSMENT OF AN EXISTING BUILDING USING ULTRASONIC PULSE VELOCITY METER	Robin Scaria, Pooja Pramod, Nirmalan Thomas, Sangeeth Santhosh, Gokul P V	Structural Engineering	11.50 pm-12.00 pm
4	MC35	EXPERIMENTAL METHOD TO TREAT WASTEWATER IN REFERENCE WITH CONSTRUCTED WETLAND	Binisha Saira Philip, Akhil Thilak, Abina Akber, Smruthy Mohan, Gladia Mathew	Environmental Engineering	12.00 pm-12.10 pm
5	MC39	SUSTAINABLE TRAFFIC SIGNAL IMPROVEMENT IN PARAKANDAM JUNCTION	Krishnapriya B, Sandra S, Varsha B, Geethu Lal	Transportation & Traffic Engineering	12.10 pm-12.20pm
6	MC40	Traffic Collision And Redesigning Of The Intersection	Achu.S, Aravind.T.P, Bhagya.S, Devika.S, Anila Mary Jacob	Transportation & Traffic Engineering	12.20 pm-12.30pm
7	MC47	EFFECT OF POLYPROPYLENE FIBER ,COIR AND NON WOVEN GEOTEXTILE ON SUBGRADE SOIL	Poojamol P. R, Varsha Madhu, Varun Vinodkumar, Vyshnavi G Nath, Abhijithkumar A.N	Geotechnical Engineering	12.30 pm-12.40pm
8	MC48	EXPERIMENTAL STUDY ON MODIFIED BITUMEN USING LDPE AND CRUMB RUBBER	Mehruniza K N, Megha Meenu Unni, Minnu P Prasad, Midhun Sethu, Ann Mary Jose	Transportation & Traffic Engineering	12.40 pm-12.50pm
9	MC52	Design and Analysis of High Rise buildings using ETABS	Jenita Kuriakose, Sreya Shaji, Roshan Daniel, Jithu Sreekumar, Richu George Varghese	Structural Engineering	12.50 pm-1.00pm
10	MC56	Study On Parking System And Its Analysis	Sneha Raju, Joyal Joseph, Tinu Joseph, Midhun.M. Swaminathan P	Transportation & Traffic Engineering	1.00 pm-1.10 pm

  
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**3<sup>rd</sup> International Conference on Advancements and Recent Trends In Civil Engineering (ICART'23)**

Date: 30.05.2023

Paper Presentation Schedule for Session -1 B on 02.06.2023 (Offline)

S.No	Paper ID	Paper Title	Authors	Theme	Time
1	MC26	EXPERIMENTAL INVESTIGATION ON PARTIAL REPLACEMENT OF CEMENT WITH MARBLE DUST POWDER	Divya Anna Saju, Aparna Biju, Aditya A, Ahmed Salman, Ms. Geethu Lal	Concrete & Building Materials	11.30 am-11.40 am
2	MC28	HUMAN HAIR FIBRE REINFORCED CONCRETE	Alfya Basheer, Anitta Paul ,Anjana Krishnan K.R, Aswin Nath G, Mrs. Nimisha Annie Abraham	Concrete & Building Materials	11.40 am-11.50 am
3	MC31	EXPERIMENTAL INVESTIGATION ON THE REUSE OF POLYPROPYLENE FIBERS FOR ADVANCING ON CONCRETE STRENGTH PROPERTIES	Akshara Nair, Blitto M Kuruvilla, Cyril George, Aksharamol G Raj	Concrete & Building Materials	11.50 am-12.00 pm
4	MC33	Development of concrete brick using recycled plastic and glass waste	Aparna B Prasad, Akhil Mathayi Varkey, Amaan Sajjan, Athira Jacob	Concrete & Building Materials	12.00 pm-12.10 pm
5	MC36	RUBBERIZED GEOPOLYMER CONCRETE	Sanjay P Kailas, Sreelakshmi Suresh, Siju Varghese Biju, Sebin Sabu, Arunkumar K	Concrete & Building Materials	12.10 pm-12.20pm
6	MC37	AN EXPERIMENTAL STUDY ON THE USE OF PLASTIC WASTE IN PAVER BLOCKS	Ivin Jacob, Jimil Thomas, Riswan Rasheed P.T, V Aadithy, Anila Mary Jacob	Concrete & Building Materials	12.20 pm-12.30pm
7	MC44	Prediction of Optimum Geopolymer Concrete Mix With Various Methods	Aleena Alan , Arathi S , Bikku Biju , Febina V Shaji, Arunkumar K	Concrete & Building Materials	12.30 pm-12.40pm
8	MC45	PARTIAL REPLACEMENT OF FINE AGGREGATE USING WASTE TYRE RUBBER IN CONCRETE	Aiswarya P, Ajith V, Arathy Raj R, Avani S, Richu Varghese George	Concrete & Building Materials	12.40 pm-12.50pm
9	MC50	AN EXPERIMENTAL CONCRETE BRICK, REPLACING A PORTION OF M-SAND BY USING SAW DUST AND RECYCLED PLASTIC WASTE	Jithin Vijju, Milan Sreemath, Nitheesh P. Arun, Roshan Reji	Concrete & Building Materials	12.50 pm-1.00pm

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**3<sup>rd</sup> International Conference on Advancements and Recent Trends In Civil**  
**Engineering (ICART'23)**

Date: 30.05.2023

**Paper Presentation Schedule for Session -1 B on 03.06.2023**

**Google Meet Link- <https://meet.google.com/sji-slbs-zej>**

S.No	Paper ID	Paper Title	Authors	Theme	Time
1	MC07	Review On Mixture Compositions of Alkaline Activated Cementitious Materials for the 3D printing process	T. V. SHEEJA	Concrete & Building Materials	9.30 am-9.45 am
2	MC09	Comparative study on sorption test of superabsorbent polymer (SAP) for use in cement-based materials	Anjali S K, Aiswarya B Mohan, Ajith Krishnan, Devu K V, Sharanya Raghu T P, Dr. Ajith M S	Concrete & Building Materials	9.45 am-10.00 am
3	MC51	CYCLIC BEHAVIOUR OF RC COLUMNS STRENGTHENED BY TENSILE REINFORCED MORTAR	J.Divyabharathi, B.Sekar	Structural Engineering	10.00 am-10.15 am
4	MC11	Numerical Study On Cross-shaped Stainless Steel Core Plate Wall	Chaithanya, Nijesh C.	Structural Engineering	10.15 am-10.30 am
5	MC12	Numerical Study on the Structural Behaviour of Steel Column under Pitting Corrosion	Vishnuprasad M, Narayanan N. I.	Structural Engineering	10.30 am-10.45 am
6	MC13	Numerical Study on Effectiveness of Torsional Steel Tube Damper	Albin Joy, Nijesh C	Structural Engineering	10.45 am-11.00 am
7	MC14	Numerical Investigation On The Behaviour of Steel-UHPC Composite Beams	Anusree K, Prof. Manu P Raj	Structural Engineering	11.00 am-11.15 am
8	MC58	FEA of Ultra High Performance Fibre Reinforced Concrete - Encased Steel Composite Beams	Simi K R, Ancy Eldho, Manjusha Mathew	Structural Engineering	11.15 am-11.30 am
9	MC59	Application of Construction and Demolition Wastes in Construction	Shabnam et al.,	Concrete & Building Materials	11.30 am-11.45 am
10	MC02	Strength and Behaviour of RCC STRUT and TIE with and without infill effects	T.Rahuraman, S.Arun sahaya raj	Structural Engineering	11.45 am-12.00 pm

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**3<sup>rd</sup> International Conference on Advancements and Recent Trends In Civil**  
**Engineering (ICART'23)**

Date: 30.05.2023

Paper Presentation Schedule for Session -I A on 03.06.2023 (Online)

Google Meet Link – <https://meet.google.com/hre-rfdp-rmu>

S.No	Paper ID	Paper Title	Authors	Theme	Time
1	MC05	REMEDIA TION OF POONTHURA SOIL USING FLY ASH	Akhila V Mani, Rani V	Geotechnical Engineering	9.30 am-9.45 am
2	MC08	SILTY SOIL STABILISATION FOR INFRASTRUCTURE SUPPORT	Anju K, Varada E, Drishya T K, Haritha Sreekumar, Theerth C	Geotechnical Engineering	9.45 am-10.00 am
3	MC04	Framework for Assessment of Environmental Condition through Environmental Risk Assessment	Shivi Srivastavs, Dwivedi Arun Kumar	Environmental Engineering	10.00 am-10.15 am
4	MC06	Experimental Evaluation of the Erosion Degree of Menamkulam Coastal Region	Merin Susan Manu, Rani V	Coastal Engineering	10.15 am-10.30 am
5	MC24	Mathematical Modelling to Ascertain Effect of Soft Measure on Coastal Morphology	Bibin John, Phani Kumar	Coastal Engineering	10.30 am-10.45 am
6	MC57	3D Printable Concrete: Mixture Design, Simulation & Test Methods	Jithin Sudhkrishnanline, Reshma Nair P J	Concrete & Building Materials	10.45 am-11.00 am
7	MC16	A SMALL SCALE TEXTILE WASTWATER TREATMENT BY PHYTOREMEDIATION USING EICHHORNIA CRASSIPES	MANIKANDAN S, SARASWATHI E, KARTHIKAYENI S, SUBASH CHANDRABOSE R.	Environmental Engineering	11.00 am-11.15 am
8	MC17	AN EXPERIMENTAL INVESTIGATION OF CEMENT BY PARTIAL REPLACEMENT OF GGBS IN CONCRETE	BRITNEY JOSE A, KARTHIK S, SIVAJI R, MARY TRESA SHINU NM, SATHISH KUMAR	Concrete & Building Materials	11.15 am-11.30 am
9	MC42	Comparitive study of geocell reinforced soil in pavement construction	Swathi pradeepan P ,Safhana Fathima K.C ,Helga Chandran ,Adick Zaman M ,Sreelakshmi Ranjit	Geotechnical Engineering	11.30 am-11.45 am
10	MC53	COMPARATIVE STUDY OF PERFORMANCE OF RECONSTITUTED BLACK COTTON SOIL STABILIZED ADOBE WITH M SAND AND RED SOIL.	Jhenkara Manjunath, Indrajith Guptha S, Annapurna B P	Geotechnical Engineering	11.45 am-12.00 pm

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Date: 30.05.2023

**Paper Presentation Schedule for Session -1 C on 03.06.2023**

Google Meet link: <https://meet.google.com/udq-ypdt-trk>

S.No	Paper ID	Paper Title	Authors	Theme	Time
1	MC15	FE Analysis on renovated RC frame after column removal using ANSYS	Ajin K Jiji, Gokul PV	Structural Engineering	9.30 am-9.45 am
2	MC19	SEISMIC ANALYSIS OF MULTISTORIED BUILDING HAVING DIAPHRAGM DISCONTINUITIES AND RE-ENTRANT CORNERS USING ETABS	Amruta Murali, Reni Kuruvila	Structural Engineering	9.45 am-10.00 am
3	MC20	SEISMIC ANALYSIS OF MULTISTORIED BUILDING OF REGULAR AND IRREGULAR PLAN CONFIGURATION WITH DIFFERENT BRACING SYSTEM USING ETABS	Anjaly Anilkumar, Ann Mary Jose	Structural Engineering	10.00 am-10.15 am
4	MC22	Mix Design of DBM with RAP Aggregates	Vijil A. Jose, P Swaminathan	Concrete & Building Materials	10.15 am-10.30 am
5	MC23	STUDY OF STRUCTURAL BEHAVIOUR OF PT BEAM OF A MULTI-STORIED BUILDING UNDER SEISMIC LOAD	FEBIN ANTONY, Geethu Lal	Structural Engineering	10.30 am-10.45 am
6	MC41	Flexural behavior of pairs of laminated unequal channel beams with different interfacial connections in corner-supported modular steel buildings Using ANSYS	Febimmon Baby, Anila Mary Jacob	Structural Engineering	10.45 am-11.00 am
7	MC46	RESPONSE OF MULTISTORIED BUILDING WITH DIFFERENT BRACING SYSTEMS UNDER SEISMIC CONDITIONS USING ETABS	Kiran P S, Gokul P V, Vidya Mohan	Structural Engineering	11.00 am-11.15 am
8	MC49	ACTIVE VIBRATION CONTROL OF LAMINATED COMPOSITE THIN PLATES USING A SMART MATERIAL	Richumon Salu, Gokul P. V, Silpa Caroline James	Structural Engineering	11.15 am-11.30 am
9	MC54	P-DELTA analysis on steel fiber reinforced concrete structure using ETABS	Jane Alexander , Lulu K Makkar	Structural Engineering	11.30 am-11.45 am
10	MC55	SEISMIC BEHAVIOUR OF MULTISTORY BUILDING RESTING ON INCLIND GROUND USING ETABS	Noufal KT, Lulu K Makkar	Structural Engineering	11.45 am-12.00 pm

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Engineering (ICART'23)**

**Chair persons for Paper Presentation**

**Day 1 (02.06.2023)**

S.No	Date	Session	Chairs	Co-Chairs	Session In-charges
1.	02.06.23	1A	<b>Dr.R.Radhakrishnan</b> Professor & Dean, Mangalam College of Engineering, Kottayam  <b>Dr.Asha P Tom</b> Associate Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam  <b>Dr.P.Swaminathan</b> Associate Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam  <b>Mr.Gokul P V</b> Associate Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam	<b>Ms.Reni Kuruvilla</b> Assistant Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam  <b>Ms.Ann Mary Jose</b> Assistant Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam  <b>Ms.Anila Mary Jacob</b> Assistant Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam  <b>Ms.Aksharamol G Raj</b> Assistant Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam	<b>Ms. Vidya Mohan</b> Assistant Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam  <b>Ms. Anju Raju</b> Assistant Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam  <b>Mr.Richu George Varghese</b> Assistant Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam  <b>Ms.Asha Jose</b> Assistant Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam
2.	02.06.23	1B			

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# MANGALAM COLLEGE OF ENGINEERING DEPARTMENT OF CIVIL ENGINEERING

## 3<sup>rd</sup> International Conference on Advancements and Recent Trends In Civil Engineering (ICART'23)

Day 2 (03.06.2023)

3.	03.06.23	1A	<p><b>Ms.Rinitha P</b> HoD/CE College of Engineering, Thalasseri.</p> <p><b>Dr.R.Radhakrishnan</b> Professor &amp; Dean, Mangalam College of Engineering, Kottayam</p>	<p><b>Ms.Geethu Lal</b> Assistant Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam</p> <p><b>Ms.Ann Mary Jose</b> Assistant Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam</p> <p><b>Ms.Reni Kuruvilla</b> Assistant Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam</p> <p><b>Ms.Athira Jacob</b> Assistant Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam</p> <p><b>Ms.Anila Mary Jacob</b> Assistant Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam</p> <p><b>Mr.Richu George Varghese</b> Assistant Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam</p>	<p><b>Ms. Nimisha Annie Abraham</b> Assistant Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam</p> <p><b>Ms.Aswathy Sugu</b> Assistant Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam</p> <p><b>Ms.Silpa S Caroline</b> Assistant Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam</p> <p><b>Ms.Gladia Mathew</b> Assistant Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam</p> <p><b>Mr.Lulu K Makkar</b> Assistant Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam</p> <p><b>Ms. Vidya Mohan</b> Assistant Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam</p>
4.	03.06.23	1B	<p><b>Ms.Niranjana K</b> PG Coordinator, A P Thesus Engineering College, Thrissur.</p> <p><b>Dr.Asha P Tom</b> Associate Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam</p> <p><b>Dr.P.Swaminathan</b> Associate Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam</p>		
5.	03.06.23	1C	<p><b>Mr.Gokul P V</b> Associate Professor Department of Civil Engineering, Mangalam College of Engineering, Kottayam</p>		



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**DEPARTMENT OF CIVIL ENGINEERING**

**3<sup>rd</sup> International Conference on Advancements and Recent  
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Our department of civil engineering organized the 3rd International Conference on Advancements and Recent Trends in Civil Engineering (ICART'23) on 02<sup>nd</sup> & 03<sup>rd</sup> June 2023. The program was inaugurated by Dr. Samson Mathew, Director, National Transportation Planning and Research Centre (NATPAC), Thiruvananthapuram, Kerala and Dr. Jayamohan J, Principal, LPS College of Engineering for Women, Thiruvananthapuram, Kerala. Further the keynote session was delivered by our foreign delegate, Dr Anthony Leung, Associate Professor & UG Coordinator, Associate Director of Geotechnical Centrifuge Facility, Department of Civil and Environmental Engineering, Hong Kong University of Science and Technology, Hong Kong. For our h conference we had called for papers in all the streams of civil engineering, such as structural, construction, concrete and geotechnical etc., We have received 98 papers from all over India and we scrutinized 54 papers based on their quality. The selected papers have been presented in our conference by five sessions and chairs from other institutions valued the presentation. Chairs also selected best 4 papers and those papers were submitted to SCOPUS indexed journals and other 50 papers have been published in the International Journal of Engineering and Research Technology. At last, the conference has been successfully valedicted by our experts Dr.N.Unnikrishnan, Chairman IGS, Thiruvananthapuram Chapter and Mrs. Rani V, Joint Secretary, IGS, Trivandrum.

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*Details of the paper presented and published in National / International conference proceedings*

S. No	Title of the Paper	Date, Month and Year of publication	Vol. No. and Issue No.	Name of the Conference	Name of the Authors	Proceedings Name
1.	EFFECT OF SEA SAND IN THE BEHAVIOUR OF FRESH CONCRETE PARTIALLY REPLACED WITH M - SAND	October 2023	Online First	ICART'23	Neethu S, Tensing D, Vincent Sam Jebadurai S	RESM-SCOPUS
2.	Mix Design of DBM with RAP Aggregates	July 2023	Vol. 11 Issue 2	ICART'23	P Swaminathan	ICART 23
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4.	FE Analysis on renovated RC frame after column removal using ANSYS	July 2023	Vol. 11 Issue 2	ICART'23	Gokul P.V	ICART 23
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1.	Remuneration for guests	10000
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8.	Lunch & Other Expenses	6540
9.	ICART Proceedings publication in IJERT	19500
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<b>Total</b>		<b>98920</b>

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	2	24.01.23 to 26.01.23	FDP on Data Science using Python		42

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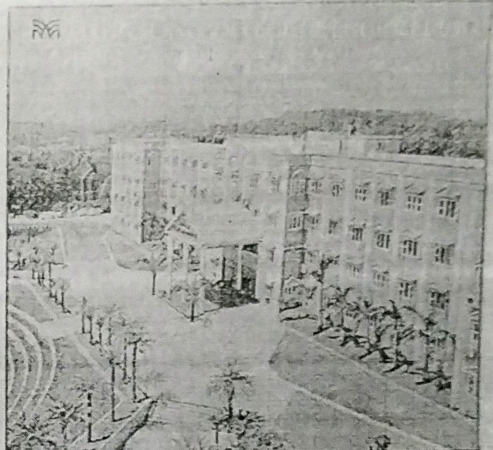
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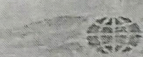
- Prof. Dr. J. E. S. Coimbra, University, Montreal  
U. Q. T. S. Canada
- Prof. Dr. Václav Štepl, CSE, VSB-Technical University of  
Ostrava, Czech Republic
- Prof. Dr. Janet Light, CSE, University of New Brunswick,  
Canada.
- Prof. Dr. Rajendra Hegadi, IIT, Dharwad, Karnataka.
- Prof. Dr. Philip Samuel, Head CSE, CUSAT, Kerala.
- Prof. Dr. Ebin Devi Raj, Head CSE, IIT, Kottayam, Kerala.
- Prof. (Dr.) Ajith Abraham, Editor-in-Chief, Engineering  
Applications of Artificial Intelligence.
- Prof. Dr. John Martin, CSIS, Jazan University (Ministry of  
Higher Education), KSA, Saudi Arabia
- Prof. Dr. S. D. Prabu, Ragavendiran, Head CSE, RVS,  
Technical Campus, Tamilnadu.
- Dr. Rami Prasad K., Director, VisionCog, Research and  
Development Pvt. Ltd., Kerala
- Prof. Dr. S. R. Balasundaram, Computer Application, NIT,  
Tiruchy, Tamilnadu.
- Prof. Vinay S. Guza, Computer Application, NIT,  
Tiruchy, Tamilnadu.
- Prof. Dr. Sabu M. Thampi, CSE, Kerala University of Digital  
Sciences, Innovation and Technology (KUDSIT)
- Prof. Dr. D. Dhanya, Head CSE, Mar Eppinam College of  
Engineering & Technology, Kanyakumari, TN.
- Prof. Dr. Manjunath K. N., CSE, Manipal Institute of  
Technology, Manipal, Karnataka

**COMMUNICATION DETAILS**

- Ms. Neetha Maria John, +919947472025
- Mr. Eldhose K Raul, +919947431992
- Ms. Justy Jameson, +919497666113
- www.mangalam.ac.in/iccidt23



**5<sup>th</sup> INTERNATIONAL CONFERENCE ON  
COMPUTATIONAL INTELLIGENCE  
AND DIGITAL TECHNOLOGIES  
ICCIDT 2K23**



www.mangalam.ac.in/iccidt23

ORGANIZED BY  
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING  
AND AI & ML

11<sup>th</sup> & 12<sup>th</sup> MAY 2023

IN COLLABORATION WITH  
IJERT & LECTURE NOTES ON  
NETWORK AND SYSTEM  
CONFERENCE PROCEEDINGS



MANIPAL UNIVERSITY  
DEPARTMENT OF AI & ML  
MANGALAM COLLEGE OF ENGINEERING  
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## ABOUT THE COLLEGE

Mangalam Educational Institutions, Mangalam, inaugurated by the Government of Kerala in 1984. Mangalam College of Engineering (MACE) is one of the institutions under the Educational Society established in 2002. The various blocks are built over 25 acres with a built up area of about 11,000 sq. meters. Mangalam College of Engineering offers B.Tech., M.Tech., and Ph.D. degrees in different disciplines.

## ABOUT THE DEPARTMENT

Department of Computer Science and Engineering at Mangalam College of Engineering, was established in 2002 to meet the challenges of higher education, research and innovation in key areas of Computer Technology. The department equipped with well-furnished laboratories and library to carry out research activities. The department aims to develop computer and software engineers who are industry ready, innovative and entrepreneurial. Workshops and seminars are conducted on a regular basis, to put on the students, the theoretical concepts learned in the classrooms. The department frequently conducts seminars and invited talks with the participation of experienced resource persons from the industry.

- To become centre of excellence in computing and research
- Future generations embrace technologies wholeheartedly
- Explore its possibilities to make the world a better place to live.
- Enlighten the young talents to achieve academic excellence
- Build an professional competence by imparting state of the art knowledge in computing and to be admirable individuals with high values and appropriate skills.

### Program Educational Objectives

1. Graduate will have strong foundation and profound knowledge in computing and allied engineering and be able to meet the requirements of real world problems, design and develop innovative engineering solutions and maintain it effectively in the profession.

2. Graduate will adapt to technological advancements by pursuing higher studies, lifelong learning and research, thereby contributing to computing profession.

3. Graduate will foster team spirit, leadership, innovation, ethics and social values, which will lead to apply knowledge of societal impacts of computing technologies.

## CONFERENCE THEME

IJERT 2023 aims to explore Computational Intelligence and Digital Technologies in a wide range in the form of presentation and discussion with eminent personalities in terms of experience and expertise.

### Call for Papers

All Papers related to Computational Intelligence and Digital Technologies are invited as detailed but not limited.

- \* Artificial Intelligence & Robotics
- \* Big Data & Cloud Computing
- \* Digital Signal & Image Processing
- \* Data Compression & Multimedia Techniques
- \* E-learning & Internet of Things
- \* Embedded System & Machine Learning
- \* Grid Computing & Web Technologies
- \* Network Security
- \* Mobile Computing & Wireless Communication

## IMPORTANT DATES

- Manuscript submission: 1<sup>st</sup> May 2023
- Manuscript acceptance: 4<sup>th</sup> May 2023
- Registration Opens : 5<sup>th</sup> to 10<sup>th</sup> May 2023
- Final Manuscript : 10<sup>th</sup> May 2023
- Conference Date : 11<sup>th</sup> & 12<sup>th</sup> May, 2023

### Submission Procedure

- \* The soft-copy of the full manuscript should be sent through email to [ijert@mangalam.ac.in](mailto:ijert@mangalam.ac.in) on or before the submission date. The manuscript format is available in <https://www.mangalam.ac.in/ijert23>.
- \* Submission should be an original contribution and should not have been presented or published elsewhere.

## REGISTRATION FEE DETAILS

NAME OF THE CATEGORY	INDIAN	FOREIGN
UGTG Students	₹2500	\$30
Research Scholar	₹4000	\$50
Academics & Industry Delegates	₹7000	\$85

Note: Payment details and Registration form will be given after completing the peer-review process.

## PUBLICATIONS

- \* All submitted papers will be peer-reviewed to ensure their quality and relevance.
- \* All accepted & registered papers will be published in peer-reviewed journal IJERT and Lecture notes on Network and System without any additional payment.
- \* Presentation method is available in both online and offline mode.
- \* Quality papers will be published in Lecture Notes On Network And System Conference Proceedings.

## KEYNOTE SPEAKERS

Dr. Ben George Ephrem  
Information Technology Department  
Higher College of Technology (HCT) Muscat  
Sultanate of Oman

Dr. Lavanya Setupalli  
Assistant Professor  
Indian Institute of Information Technology  
Kottayam, Valayoor P.O, Paly  
Kottayam - 686635, Kerala, India





MANGALAM COLLEGE OF ENGINEERING  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
INSTALLATION AND INAUGURATION OF ICCIDT 2K23

Program Schedule

Date & Time : 11<sup>th</sup> May, Thursday, 10:00AM.

Venue : Digital Theatre, MLMCE.

10:00 am *Invocation*  
*College Choir*

10:05 am *Welcome Address*  
*Ms. Neethu Maria John, HOD, Computer Science and Engineering Department, MLMCE.*

10:15 am *Presidential Address*  
*Dr. Vinodh P Vijayan, Principal, MLMCE*


10:25 am *Inauguration and Inaugural address*  
*Sri. Vinod Raj, Sub Divisional Magistrate, Kottayam*

10:45 am *Release of Conference proceedings*  
*Sri. Vinod Raj, Sub Divisional Magistrate, Kottayam*

10:50 am *Honoring of Guest*  
*Ms. Neema George, Vice Principal, MLMCE*

10:55 am *Vote Of Thanks*  
*Dr. C.Sahaya Kingriy, Convenor, ICCIDT 2K23*

11:00 am *Keynote address*  
*Dr. Lavanya Settupalli, Assistant professor, IIIT Kottayam*

  
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Kottayam



# MANGALAM COLLEGE OF ENGINEERING

Department of Computer Science & Engineering

International Conference on Computational Intelligence and  
Digital Technology (ICCIDT 2K23)

## COMMITTEE

Date: 11<sup>th</sup> & 12<sup>th</sup> May 2023

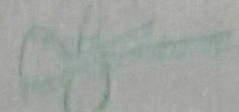
Chief Patron	Dr Biju Varghese Chairman, Mangalam Educational Institutes.
Patron	Dr. Vinodh P Vijayan, Principal, MLMCE
Organizing Chair	Ms. Neethu Maria John
Convener	Dr. C. Sahaya Kingsly
Organizing Secretaries	Ms. Neema George
	Ms. Nimmymol Manuel
	Ms. Divya S B
	Ms. Jinu P Sainudeen
	Mr. Eldhose K Paul

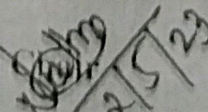
Committee Name	Responsibilities	Members
Organizing Secretaries	<ul style="list-style-type: none"> <li>Program schedule preparation</li> <li>Venue arrangements (offline)</li> <li>Guest Arrangements &amp; Hospitality</li> <li>Refreshment for Guest's/Participant's /Students/Staff</li> <li>Lunch arrangements</li> </ul>	<ol style="list-style-type: none"> <li>Ms. Neema George</li> <li>Ms. Neethu Maria John</li> <li>Ms. Nimmymol Manuel</li> <li>Ms. Jinu P Sainudeen</li> <li>Mr. Eldhose K Paul</li> <li>Ms. Justy Jameson</li> </ol>
Inaugural Committee	<ul style="list-style-type: none"> <li>Venue Arrangement</li> <li>MC</li> </ul>	<ol style="list-style-type: none"> <li>Ms. Sruthy Emmanuel</li> <li>Mr. Sanoj C. Chacko</li> <li>Ms. Amrutha Solomon</li> </ol>



Registration Committee	<ul style="list-style-type: none"> <li>• Collection of participant details</li> <li>• Fee Collection</li> </ul>	<ol style="list-style-type: none"> <li>1. Ms. Gayathri R Krishna</li> <li>2. Ms. Justy Jameson</li> <li>3. Ms. Roja Thomas</li> <li>4. Ms. Renju Renjith</li> </ol>
Publicity Committee	<ul style="list-style-type: none"> <li>• Brochure design and dispatching through e-mail</li> <li>• Publicity through Newspaper and other digital media</li> <li>• Whatsapp group Creation</li> </ul>	<ol style="list-style-type: none"> <li>1. Ms. Divya S.H</li> <li>2. Ms. Nayana Panicker</li> <li>3. Mr. Anoop T Sasidharan</li> </ol>
Website & Journal Publication Committee	<ul style="list-style-type: none"> <li>• Website creation</li> <li>• Conference Proceeding preparation</li> <li>• Manuscript publication in UGC/Scopus approved Journals</li> </ul>	<ol style="list-style-type: none"> <li>1. Dr. Sabu George</li> <li>2. Dr. C. Sahaya Kingsly</li> <li>3. Mr. Vimal Babu P</li> <li>4. Ms. Nayana N Panicker</li> <li>5. Ms. Renju Renjith</li> </ol>
Publication Committee	<ul style="list-style-type: none"> <li>• Review the manuscripts supporting with subject experts</li> <li>• Collect the review status from experts and assign manuscript ID for selected manuscript</li> <li>• Finally handover to registration committee</li> <li>• Camera ready Paper handover to publication committee.</li> </ul>	<ol style="list-style-type: none"> <li>1. Dr. S. Padmalal</li> <li>2. Ms. Tinu Thomas</li> <li>3. Ms. Jinu P. Sainudeen</li> <li>4. Mr. Sanoj C Chacko</li> <li>5. Mr. Anoop T Sasidharan</li> <li>6. Ms. Aiswarya Mohan K</li> <li>7. Ms. Sruthy K Joseph</li> </ol>
Certificate Committee	<ul style="list-style-type: none"> <li>• Certificate creation for the participants / session chairs/staff</li> <li>• Certificate (Hardcopy) distribution to all participants/ session chairs/staff</li> </ul>	<ol style="list-style-type: none"> <li>1. Mr. Jayakrishnan. B</li> <li>2. Ms. Anjumol Zacharia</li> <li>3. Ms. Anjana J Mani</li> <li>4. Mr. Dheeraj N</li> </ol>
Finance Committee	<ul style="list-style-type: none"> <li>• Collect money from Registration / Sponsorship committee &amp; department</li> <li>• Distribute money to different committees based on their written request approved by Conference Chair's</li> <li>• Maintain account properly</li> </ul>	<ol style="list-style-type: none"> <li>1. Ms. Neema George</li> <li>2. Ms. Neethu Maria John</li> <li>3. Mr. Jayakrishnan B</li> </ol>

Note: First person in each committee should act as coordinator.

  
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Conference Chair  
  
 Ms. Neethu Maria John  
 21/5/23





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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
ICCIDI-2K23  
LIST OF PAPERS

Sl. No	PAPER ID	TITLE	AUTHOR	CONTACT ID & PHONE NUMBER	REVIEW	Reviewers Contact	Reviewers Form Status
1	ICCIDI2K23-101	RICE LEAF DISEASES DETECTION USING EFFICIENT NEURAL NETWORK MODEL	Gayathri S Kartha	gayathrikarthas@gmail.com	Dr. C. Nelson Kennedy Babu, Professor/CSE, Savitribai School of Engineering, SJMATS Deemed University, Thandalam, Kanchipuram - Chennai Road, Chennai-602103	cnk1abab61@gmail.com 9444836679	RECEIVED
2	ICCIDI2K23-102	Trojan Malware Detection Using Steganography and Deep Learning and Machine Learning Concepts	Hari Krishnan	harikrishnan.aj@gmail.com	Dr. F. R. Shiny Malst, Professor & Head, Department of Computer Science and Engineering, Stella Mary's College of Engineering K. K. Dist, Tamilnadu.	headcs@stallamaryscoe.edu.in 9476623399	RECEIVED
3	ICCIDI2K23-103	Age And Gender Prediction From Human Voice For Customized Ads In E-commerce docs	Muhammed Thameem P.	19gcs42@meace.edu.in	Dr. R. K. Selvakumar, Professor/CSE, CVR College of Engineering, Hyderabad.	rkselvakumar@gmail.com 9486703579	RECEIVED
4	ICCIDI2K23-104	DSCREEN- A Game To Screen Dyslexia	Swertha N.	dsxscreen@gmail.com	Dr. P. A. Abdul Saleem, ProfCSE (Data Science), CVR College of Engineering, Hyderabad	dsaleemprincipal@gmail.com 9440848506	RECEIVED
5	ICCIDI2K23-105	RECOGNITION OF FOOD TYPE AND CALORIE ESTIMATION	Harsha PC	19pcal3@meace.edu.in	Dr. Seidev Christopher, Professor/CSE, St. Xavier's Catholic College of Engineering, K. K. Dist, Tamilnadu.	cseludev@gmail.com 9443425874	RECEIVED
6	ICCIDI2K23-106	Lung Cancer Detection Using Machine Learning	Husna M.	19mcs55@meace.edu.in	Dr. R. K. Selvakumar, Professor/CSE, CVR College of Engineering, Hyderabad.	rkselvakumar@gmail.com 9486703579	RECEIVED
7	ICCIDI2K23-107	COMPLAINT PORTAL USING BLOCKCHAIN	Muhammad Riswan	projectgroupsixtkmit@gmail.com	Dr G Harisharan Associate Professor School of Engineering Department of AIML Malla Reddy University Hyderabad -100	harisharan@mallereddyuniversity.ac.in 9063565528	RECEIVED

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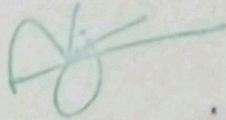


8	ICCIDD2K23-108	A Comprehensive Review - Energy Efficient Wireless Sensor Network	Ajeesh S	ajeesh.s@santgits.org	Dr M K JeyaKumar, Professor, Dept of Computer Applications, Controller of Examinations, N I Centre for Higher Education, K K Dist, Tamilnadu-629180	jeyakumar@niuniv.com 944328113	RECEIVED
	ICCIDD2K23-109	Attendance Tracking System using Machine Learning	Arunmozhi N	arunmozhi2719@gmail.com	Dr M K JeyaKumar, Professor, Dept of Computer Applications, Controller of Examinations, N I Centre for Higher Education, K K Dist, Tamilnadu-629180	jeyakumar@niuniv.com 944328113	RECEIVED
10	ICCIDD2K23-110	Prediction of chronic disease using deep learning	Sreejith S	sreejithsreeskumar@gmail.com	Dr C Nelson Kennedy Babu, Professor /CSE, Saveetha School of Engineering, SIMATS Deemed University, Thandalam, Kanchipuram -Chennai Road, Chennai- 602105	cnkbabu63@gmail.com 994488669	
11	ICCIDD2K23-111	Parkinson's Disease Prediction Using Deep Learning Technique	Shadiya Sherin	shadiyasherin27@gmail.com	Dr P A Abdul Saleem, Prof/CSE (Data Science), CVR College of Engineering, Hyderabad.	drsaleemprincipal@gmail.com 9440848506	RECEIVED
12	ICCIDD2K23-112	Prediction of Crop Yield Using Ensembling Approaches	Mahalakshmi E	esakkunuthu2418@gmail.com	Dr Seidev Christopher, Professor / CSE, St Xavier's Catholic College of Engineering, K K Dist, Tamilnadu.	cseldev@gmail.com 9443425874	RECEIVED
13	ICCIDD2K23-113	Student Academic Performance Prediction Analysis Based on Lifestyle and Previous Academics Using Data Science and Machine Learning	SHAHUL P 19GCS23	19gcs23@meaee.edu.in	Dr C Nelson Kennedy Babu, Professor /CSE, Saveetha School of Engineering, SIMATS Deemed University, Thandalam, Kanchipuram -Chennai Road, Chennai- 602105	cnkbabu63@gmail.com 994488669	RECEIVED
	ICCIDD2K23-114	IMPROVED PERSONAL ASSISTANCE AND MUSIC THERAPY FOR ALZHEIMER'S PATIENT	Anjali Krishna U M, Denni Shaji, Devu V, Gopika S	projectalzheimers@gmail.com	Dr. F R Shiny Malar, Professor & Head, Department of Computer Science and Engineering, Stella Mary's College of Engineering, K K Dist, Tamilnadu.	headcse@stellamaryscoe.edu.in 9626623369	RECEIVED
	ICCIDD2K23-115	CYBERBULLYING DETECTION IN INSTAGRAM USING MACHINE LEARNING	Jubina Sumayya, Madhav M Mohan, Merrina Jomon, Rohan Z	merijothy@gmail.com jubinasumi@gmail.com	Dr Seidev Christopher, Professor / CSE, St.Xavier's Catholic College of Engineering, K.K.Dist, Tamilnadu.	cseldev@gmail.com 9443425874	

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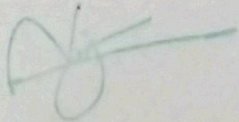
16	RCCEJNK27-014	STUDENT CAREER PAPER TITLE:USING RANDOM FOREST	Amisha Rajan Hegde DhanuHarjash Roshan PK, Ten Laxmi	hishajegade@gmail.com 1.com	Dr S Padmalal, Professor CSE, Mangalam College of Engineering, Kattayam Dist, Kerala	padmalal@mmangalam.in 944117990	RECEIVED
17	RCCEJNK28-017	Application of Deep Reinforcement Learning For Label Value Rating Prediction in Rural-Urban Administration Planning	Imadheer Ahmed P. Computer Science and Engineering MCA Engineering College Perinthalamna, India	19gco09@meatec.edu.in	Dr. C. Sahaya Kungyil, Associate Professor /CSE, Mangalam College of Engineering, Kattayam Dist, Kerala  Dr. C. Nelson Kennedy Babu, Professor /CSE, Savyetha School of Engineering, SIMATS Deemed University, Thandilam, Kanchipuram -Chennai Road, Chennai- 602105  Dr. G Hariharan Associate Professor Department of AI & ML Malla Reddy University Hyderabad-500100	sahaya.kungyil@mangalam.in 9080846117  cokbabu3@gmail.com 994488669  hariharan@mallerreddyunivers ity.ac.in 9003565528	RECEIVED
18	RCCEJNK29-018	USER-RATED MOVIE RECOMMENDATION SYSTEM USING KNN ALGORITHM	R. Jeeva, N. Gomathi, C. Rajeshwari, M. Sakshi Manocha, P. Jambhiseri R. Jeeva, Research Scholar, AP / CSE Department, Thamirabharani Engineering College, Tirumelveli, Tamilnadu, India, jeeva3710@gmail.co m	santbiyaraj195@gmail.com	Dr G Hariharan Associate Professor School of Engineering Department of AIML Malla Reddy University Hyderabad -100	hariharan@mallerreddyunivers ity.ac.in 9003565528	RECEIVED
19	RCCEJNK23-119	A Deep Learning Approach for Diabetic Retinopathy And Cataract Detection	Harivya P.M, Farhima Safna, Khadeeja Shelin CK, Hiba Sherin T, Dr Shasad Malayil Associate Professor Department of CSE MFEALC, Vengoor, Malappuram	19ncs13@meatec.edu.in	Dr.G.Hariharan Associate Professor School of Engineering Department of AIML Malla Reddy University Hyderabad -100	hariharan@mallerreddyunivers ity.ac.in 9003565528	RECEIVED



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20	ICCIDE2K23-120	Type 2 Diabetes Prediction in Women Using Machine Learning in Malabar Area	mahammed shamsheer sharanan	shamsheerep8921@gmail.com	Jayakrishnan B	RECEIVED
21	ICCIDE2K23-121	An Intelligent Voice Assistance System For Visually Impaired Using Deep Learning	Anitha Biju	na.dhbjuam@gmail.com	Divya SB	RECEIVED
22	ICCIDE2K23-122	Student attendance system with drowsiness and absenteeism detection using Smart Camera	Divya Mohan	divyamohan@aisat.ac.in	Tinu Thomas	RECEIVED
23	ICCIDE2K23-123	IoT Based Smart Candidate Assessment System During Interviews	Divya Mohan	divyamohan@aisat.ac.in	Sruthy K Joseph	RECEIVED
24	ICCIDE2K23-124	An Efficient Deep Learning System for Improved Tumor in Medical Imaging through Foggy Detection and Localization	Divya Mohan	divyamohan@aisat.ac.in	Eldhose K Paul	RECEIVED
25	ICCIDE2K23-125	Novel Method for Dermatological Disease Detection using Machine Learning	Divya Mohan	divyamohan@aisat.ac.in	Vinay Babu P	RECEIVED
26	ICCIDE2K23-126	BABY CARING AID WITH THE APPLICATION OF ANALYSIS ON LIVE VIDEO USING MACHINE LEARNING	MUHAMMED NISHAD C 19MCS45	19mes45@meace.edu.in	Gayathri R Krishna	RECEIVED
27	ICCIDE2K23-127	Revolutionizing Stroke Prevention: A Machine Learning Approach to Early Identification of Brain Stroke and Risk Factors	FATHIMA PARSEENA V S 19MCS50	19mes50@meace.edu.in	Anoop T Sasidharan	RECEIVED
28	ICCIDE2K23-128	ACCIDENT DIRECTION USING AI BASED SIGNAL PROCESSING IN INTELLIGENT TRANSPORTATION SYSTEM	MOHAMMED RASHIEN K 19NCS14	19nes14@meace.edu.in	Neethu Maria John	
29	ICCIDE2K23-129	Heart Disease prediction of Diabetic Patients Using Machine Learning	MOHAMMED FAHEEM 19MCS22	19mes22@meace.edu.in		
30	ICCIDE2K23-130	SOLAR POWERED WATER BODY CLEANING ROBOT	Simil Thomas	similtp@sjec.ac.in		

  
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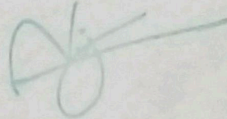




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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ICCIDD-2K23  
LIST OF PAPERS

SL NO	PAPER ID	TITLE	AUTHOR	CONTACT ID & PHONE NUMBER	Registration Status
1	ICCIDD2K23-301	Brain Tumor Detection Using Machine Learning	Rintu Joseph	rintu712@gmail.com	Registered
2	ICCIDD2K23-302	File Encryption and Decryption Using Cryptanalysis	Sreelekshmi S	ssreelekshmi10@gmail.com	Registered
3	ICCIDD2K23-303	An Intelligent Application for Detecting and Alerting on Dangerous Driving Behaviors	Roshan M Thomas	roshan6799thomas@gmail.com	Registered
4	ICCIDD2K23-304	A REVIEW OF THE FACE RECOGNITION METHODS AND ALGORITHMS	Sanitha P S, Jeena Jins	sanithaps1995@gmail.com	
5	ICCIDD2K23-305	Security Model for the privacy of Big Data in Health Care Cloud using Fog Computing	Shaldrin Emerson	shaldrin.emerson2020@gmail.com	Registered
6	ICCIDD2K23-306	Securing Industrial Internet of Things Against Botnet Attacks Using Hybrid Deep Learning Approach	Snehesh Theophine Jose	sneheshtheophine321@gmail.com	Registered
7	ICCIDD2K23-307	VEHICLE LICENSE PLATE RECOGNITION USING DARK CHANNEL PRIOR ALGORITHM	Aleena Jacob	alceenamaryjacob@gmail.com	Registered

  
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
PROJECT PHASE-II [CSD 416]

BATCH: 2019-2023

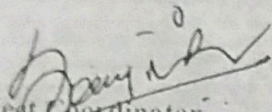
CLASS & SEM: CS 8A

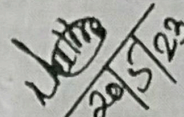
Group	Name	Project Guide	Paper ID
1	Ananta Prakash	Mr Jayakrishnan B	ICC1DT2K23-201
	Anja Babu		
	Anna Mariya E S		
2	Anaba Babu	Ms Justy Jameson	ICC1DT2K23-202
	Ann Therese Joseph		
	Hebson P Joseph		
3	Abhishek Prathap	Mr Vimal Babu P	ICC1DT2K23-203
	Adithya A Nair		
	Aravind P		
4	Abin Moses Andrews	Ms Gayathri R Krishna	ICC1DT2K23-204
	Asin Tony		
	G Harikrishna		
5	Abu Aravind	Ms Divya S B	ICC1DT2K23-205
	Denzel Jobi		
	Derrin Tom		
6	Ajay George	Ms Sruthy Emmanuel	ICC1DT2K23-206
	Aju Thomas		
	Harikrishnan B		
7	Abdu Subhan	Ms Timu Thomas	ICC1DT2K23-207
	Abhilash Nair		
	Alan Johny		
8	Angadh Ramnath	Ms Jinu P Sainudeen	ICC1DT2K23-208
	Dacena C Martin		
	Devika Nandakumar		
9	Elson P Aniyar	Ms Amritha Solomon	ICC1DT2K23-209
	Akshaya Anishkumar		
	Bobin Varghese		
10	Devi V S	Mr Dheeraj N	ICC1DT2K23-210
	Albin Varkey		
	Alvin Abraham		
11	Geo Sabu	Ms Anjana Sekhar	ICC1DT2K23-211
	Akash R Nair		
	Arathy Krishna		
12	Asluk Das T H	Mr Jayakrishnan B	ICC1DT2K23-212
	Diya Merin Babu		
	Abijith Biju		
13	Amal Mohanan	Ms Answarya Mohan K	ICC1DT2K23-213
	Avani Manesh		
	Amal K Tom		
14	Arshad Aboobaker	Mr Eldhade K Paul	ICC1DT2K23-214
	Ebin Baby		
	Abhijith V Nair		
15	Adarsh P Baiju	Mr Sanjay C Chacko	ICC1DT2K23-215
	Chandralekha J		
	Govind G Das		
16	Arjun Das	Ms Anjana J Mani	ICC1DT2K23-216
	Harsha Wilson		
	Sophiya Suany		
17	Ashin Abraham George	Ms Anjana J Mani	ICC1DT2K23-217
	Aswin Manoj		
	Aswin V T		

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17	Abhishek HR	Mr. Anoop T Sasidharan	ICCIDT2K23-217
	Ankitha Murali		
	Bendeck Jacob Mathews A		
18	Ajith Geevarghese Mathew	Dr. C Sahaya Kingsly	ICCIDT2K23-218
	Bibin Binoy		
	Deepanshu Taragi		

  
 Project Coordinator

  
 HoD

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## MANGALAM COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE AND DIGITAL TECHNOLOGY (ICCIDT -2K23)

ON 11<sup>th</sup> & 12<sup>th</sup> MAY 2023

### CONFERENCE SCHEDULE

DAY 1 : 11.05.2023 ,Thursday

Time	Programme	Venue
10.00 am	Inauguration	
11.00 pm	Keynote Address-I Dr.Lavanya Settipalli Assistant Professor Indian Institute of Information Technology Kottayam	Digital Theatre ,MLMCE

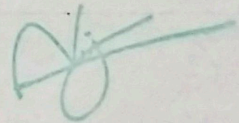
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SESSION TRACK SCHEDULE

Time	Track	Paper ID	Title of Paper	Name of First Author	Session Chair	Track in Charge	Venue
1.00 pm	Track 1(External)	ICCIDT2K23-101	RICE LEAF DISEASES DETECTION USING EFFICIENT NET B5 MODEL	Gayathri S Kaltha	Dr.S.P.Predeep Kumar,Professor, Viswajyothi College Of Engineering & Technology, Eranakulam & Mr.Vimal Babu P Assistant Professor MLMCE Ettumanoor	Ms.Aiswarya Mohan K	<a href="https://meet.google.com/egn-rpuy-uzp">https://meet.google.com/egn-rpuy-uzp</a>
		ICCIDT2K23-102	Trojan Malware Detection Using Steganography and Deep Learning and Machine Learning Concepts	Harikrishnan			
		ICCIDT2K23-103	Age And Gender Prediction From Human Voice For Customized Ads In ECommerce.docx	Muhammed Shameem P			
		ICCIDT2K23-104	DSCREEN- A Game To Screen Dyslexia	Swetha N			
		ICCIDT2K23-105	RECOGNITION OF FOOD TYPE AND CALORIE ESTIMATION	Harsha PC			
		ICCIDT2K23-106	Lung Cancer Detection Using Machine Learning	Husna M			
		ICCIDT2K23-	COMPLAINT	Muhammad			



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187	PORTAL USING BLOCKCHAIN	Riswan
ICCIDT2K23-108	A Comprehensive Review of Efficient Wireless Sensor Network	Arjun S
ICCIDT2K23-109	Attendance Tracking System using Machine Learning	Ashmita N
ICCIDT2K23-110	Prediction of chronic disease using deep learning	Sreejith S
ICCIDT2K23-124	An Efficient Deep Learning System for Improved Fraud in Medical Imaging through Forgery Detection and Localization	Divya Mohan
ICCIDT2K23-125	Novel Method for Dermatological Disease Detection using Machine Learning	Divya Mohan
ICCIDT2K23-126	BABY CARING AID WITH THE	MUHAMMED

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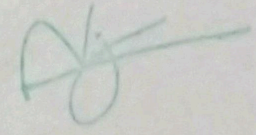


		APPLICATION OF ANALYSIS ON LIVE VIDEO USING MACHINE LEARNING	NISHAD			
Track 2 (Internal)	ICCIDT2K23-219	Eye blink detection system for virtual keyboard	Indrajith M Dinesh	Dr. Sibin George &	Ms. Renju Renjith	Project Lab
	ICCIDT2K23-220	Ride Sharing	Jishnu V Joshy	Ms. Roja Thomas		
	ICCIDT2K23-221	HUMAN DISEASE PREDICTION AND DOCTOR BOOKING SYSTEM	Joel Roy			
	ICCIDT2K23-222	Deep learning technique for personality classification trait from text.	Joffin George			
	ICCIDT2K23-223	Alive human detection robot	Justine Mathew			
	ICCIDT2K23-224	FACIAL RECOGNITION ATTENDANCE SYSTEM USING FLASK AND OPEN CV	Krishnaprasad A R			
	ICCIDT2K23-225	The Paw Project A Mobile Application for Identifying Stray Dogs	Lakshmi Kochumon			
Track 3	ICCIDT2K23-	SOUND TRIGGERED	Anjana Prakash			DMA LAB

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(Internal )	201	PATROLLING AND SURVEILLANCE ROBOT USING DEEP LEARNING		Dr.Sahaya Kingsly Associate Professor MLMCE Ettumanoor	Mr.Jayakrishnan B
	ICCIDT2K23-202	A Household Energy Power Consumption Meter	Aradhya Babu		
	ICCIDT2K23-203	Utilizing a Neural Network to recognize named entities in the Malayalam language.	Abhishek Prathap	Ms.Gayathri Krishna Assistant Professor MLMCE Ettumanoor	R
	ICCIDT2K23-204	Crash Detection Using an IOT Based Sensor and Health Related Features	Abin Moses Andrews		
	ICCIDT2K23-205	Driver Assistance System In Stop Signal Intersection Scenarios With Live Gps Voice	Abu Aravind		
	ICCIDT2K23-206	Realtime Drowsiness Detector & Alert System For Sleepy Commuters	Ajay George		
	ICCIDT2K23-207	Advanced Home Automation and Security Systems Using IoT	Abdu Subhan		
	ICCIDT2K23-208	Vulnerability Deterrence System Using Web Application Firewalls- Deep	Angadh Ramnath		

  
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Learning &  
Reinforcement Learning

DAY 2 : 12.05.2023 ,Friday

SESSION TRACK SCHEDULE

Time	Track	Paper ID	Title of Paper	Name of Authors	Session Chair	Track in Charge	Venue
9.30 am	Track 1 (External)	ICCIDD 2K23-111	Parkinson's Disease Prediction Using Deep Learning Technique	Shadiya Sherin	Dr.Siva Raja P M Amrita College Of Engineering & Technology Nagercoil & Mr.Eldhose K. Paul Assistant Professor MLMCE	Mr.Dheeraj N	<a href="https://meet.google.com/egn-rpuv-uzp">https://meet.google.com/egn-rpuv-uzp</a>
		ICCIDD 2K23-112	Prediction of Crop Yield Using Ensembling Approaches	Mahalakshmi E			
		ICCIDD 2K23-113	Student Academic Performance Prediction Analysis Based on Lifestyle and Previous Academics Using Data Science and Machine Learning	SHAHUL. P 19GCS23			

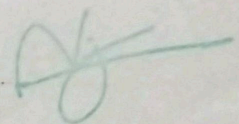
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ICCIDT 2K23- 114	IMPROVED PERSONAL ASSISTANCE AND MUSIC THERAPY FOR ALZHEIMER'S PATIENT	Anjali Krishna U M
ICCIDT 2K23- 115	CYBERBULLIY ING DETECTION IN INSTAGRAM USING MACHINE LEARNING	Jubina Sumayya
ICCIDT 2K23- 116	STUDENT CAREER PREDICTION USING RANDOM FOREST	Amina Rahim Hanna
ICCIDT 2K23- 117	Application of Deep Reinforcement Learning For Land Value Rating Prediction for Rural- Urban Administration Planning	Jemsheer Ahmed P
ICCIDT 2K23- 118	USER-RATED MOVIE RECOMMENDA	R. Jeeva

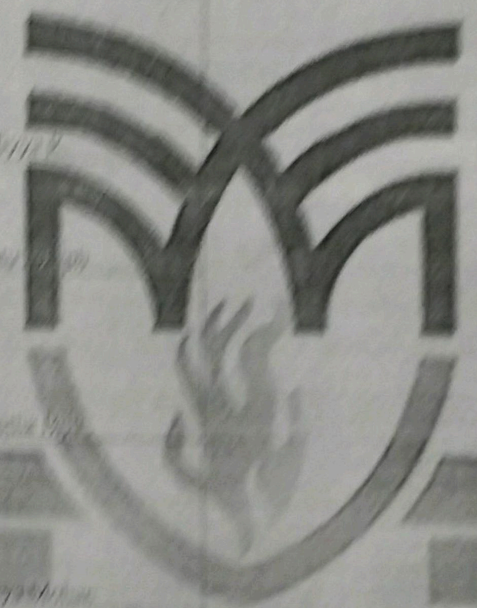
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		<ul style="list-style-type: none"> <li>1. Introduction</li> <li>2. Types of Learning</li> <li>3. Learning Objectives</li> <li>4. Learning Process</li> <li>5. Learning Environment</li> <li>6. Learning Resources</li> <li>7. Learning Evaluation</li> <li>8. Learning Support</li> <li>9. Learning Challenges</li> <li>10. Learning Future</li> </ul>			
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		<ul style="list-style-type: none"> <li>1. Introduction</li> <li>2. Types of Learning</li> <li>3. Learning Objectives</li> <li>4. Learning Process</li> <li>5. Learning Environment</li> <li>6. Learning Resources</li> <li>7. Learning Evaluation</li> <li>8. Learning Support</li> <li>9. Learning Challenges</li> <li>10. Learning Future</li> </ul>			



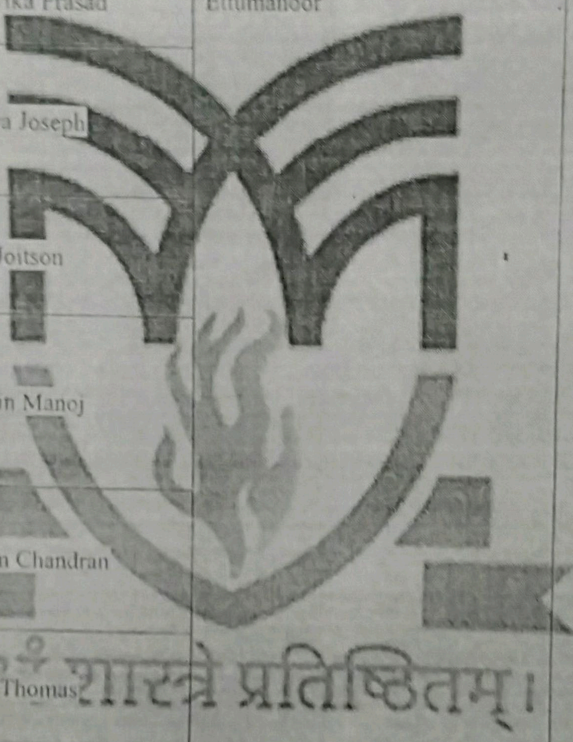
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2K23-227			Ms. Anjana J Mani Assistant Professor MLMCE Ettumanoor
ICCIDT 2K23-228	Road accident prediction system.	Malavika Prasad	
ICCIDT 2K23-229	Mask and Helmet Recognition based on Machine Learning for ATM Security	Manya Joseph	
ICCIDT 2K23-230	Credit Card Fraud Detection using Machine Learning	M S Jitson	
ICCIDT 2K23-231	Sign Language Translator: A hand gesture recognition device using Arduino	Nidhin Manoj	
ICCIDT 2K23-232	VISA PROCESSING SYSTEM USING NODE JS	Nithin Chandran	
ICCIDT 2K23-233	Voice based intelligent virtual assistance for Windows	Rose Thomas	
ICCIDT 2K23-234	PICTURE FUZZY LOGIC USING NODEJS	Sandra Omanakkuttan	



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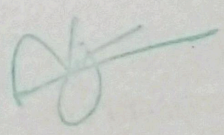
nal)	209	triple CNN			Ms Anjumol Zacharia
	ICCIDD 2K23- 210	Depression Recognition Using Machine Learning	Albin Varkey	Dr.S Padmalal Professor MLMCE	
	ICCIDD 2K23- 211	An Intelligent Hate Speech Detection System For Safetalk Using Bidirectional LSTM	Akash R Nair	Ms. Poo Thomas Assistant Professor MLMCE Ettumanoor	
	ICCIDD 2K23- 212	Breast Cancer Detection Using CLAHE-CNN Architecture	Abijith Biju		
	ICCIDD 2K23- 213	Avoiding Phishing Attack on Online Voting System Using Visual Cryptography	Amal K Tom		
	ICCIDD 2K23- 214	A Machine Learning based Classification and Prediction Technique for DDoS Attacks using KNN and Naïve Bayes	Abhijith V Nair		

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	ICCIDT 2K23- 215	algorithms A Novel Method For Data Security Using Coverless Image Steganography Using AES	Arjun Das		
	ICCIDT 2K23- 216	SITIOS: PREFERENCE BASED CARPOOLING	Albin Abraham George		
	ICCIDT 2K23- 217	SELECTIVE FEATURE BASED THYROID DISEASE CLASSIFICATI ON USING DEEP LEARNING	Abhishek H R		
	ICCIDT 2K23- 218	An Intelligent Deep-Learning based Drunk Driving Detection System	Ajith Mathew Geevarghese		
Track 3(Inter nal)	ICCIDT 2K23- 226 ICCIDT 2K23- 227 ICCIDT	Web application for blind peoples. PHONEMITHIRA	Lijin Laju Linsa Mariam Binu	Dr.Sahaya Kingsly Associate Professor- MLMCE Ettumanoor &	Ms.Nayana N Panicker N410

  
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APPLICATION



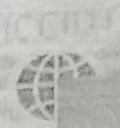
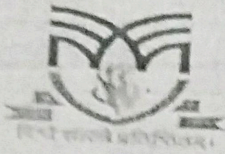
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*Neethu*  
24/5/23  
Conference Chair

Ms. Neethu Maria John.

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MANGALAM COLLEGE OF ENGINEERING  
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING  
INSTALLATION AND INAUGURATION OF ICCIDD 2K23 REPORT

Date & Time : 11th May, Thursday, 10:00AM

VENUE: DEPARTMENT OF CSE, NEW BLOCK

Conference Coordinator Faculty: Pro. Dr. C. Sahaya Kingsly

Conference Coordinator Student: Mr. Deepanshu Taragi, S8 A

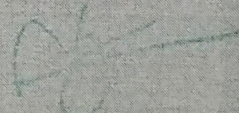
Department of Computer Science and Engineering, Mangalam Campus, successfully organized two day International conference ICCIDD 2k23, on 11<sup>th</sup> and 12<sup>th</sup> May, (Thursday, Friday) 2023.

Conferences are important social events for any field that involves a lot of study and networking. Business, academic, medicine, law, and engineering fields are just a few examples where conferences usually take place for people who are focusing on working in that field. This allows people in the same profession to get together with like-minded people and share the most recent themes, data, and research in their field and allow others to learn from a broad range of experts who are operating in the field that can provide insights and innovations relating to the further development of their field. Conferences are also a great way to get networks to get grants and funding as well.

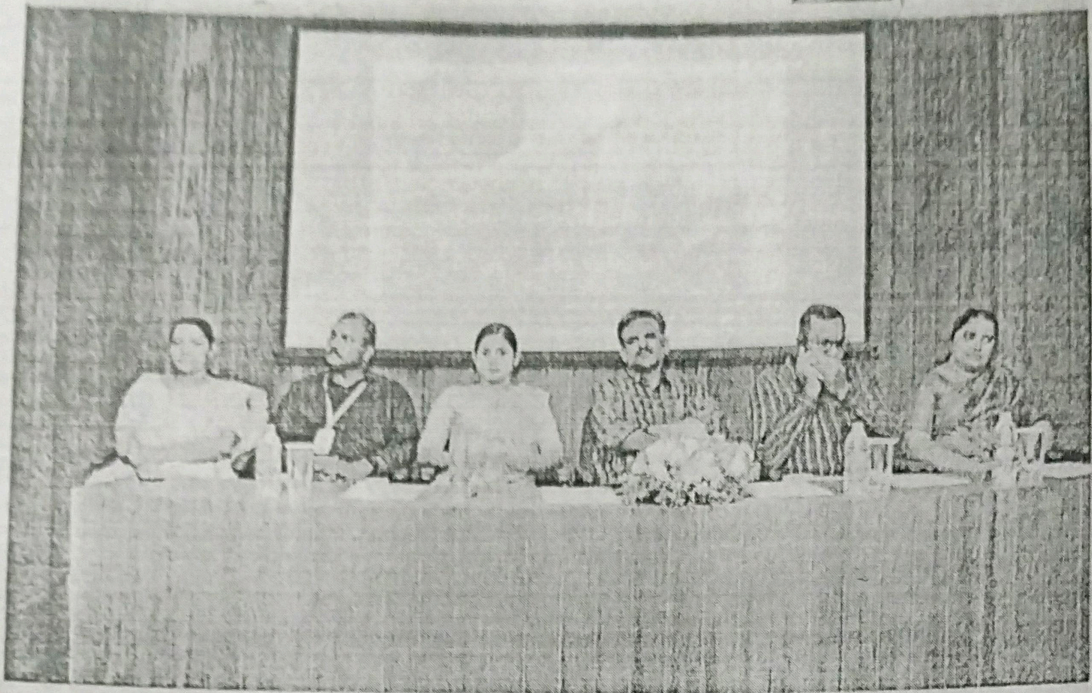
ICCIDD 2K23, an International Conference on Computational Intelligence and Digital Technologies Organised by Dept of Computer science and engineering is a great platform for researchers, academicians, students and industry experts to come together and exchange ideas on the latest advancement in the field of computational intelligence and digital technology.

The Program started with a small prayer by the college choir team and our Head of the department Ms. Neethu Maria John, welcomed the entire guest to the function. The program follows presidential address by Our Principal Dr. Vinodh P. Vijayan, who plays a pivotal role in transforming our institute into a leading educational institution.

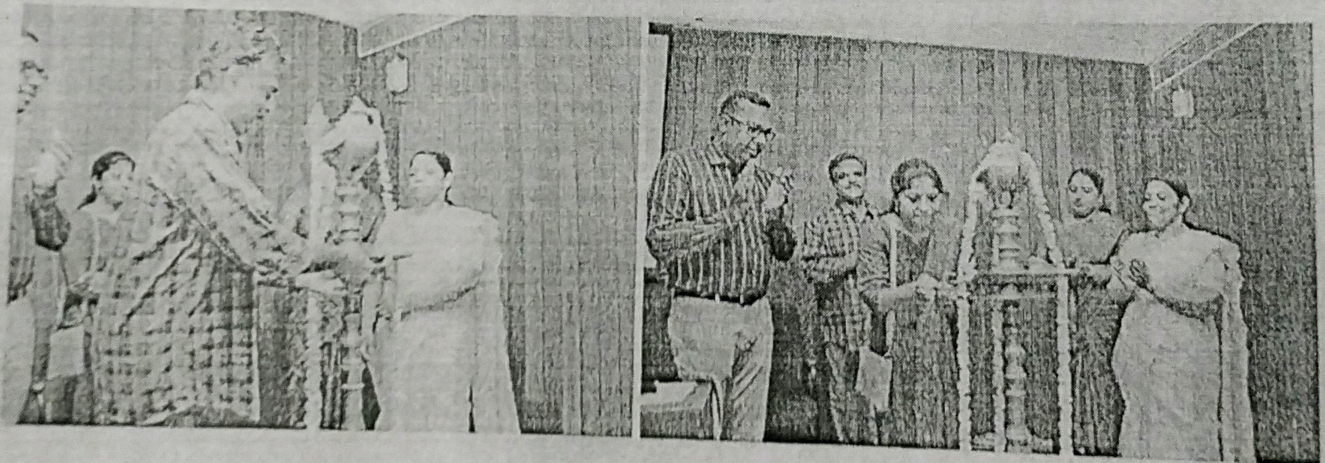
ICCIDD - 2K23

  
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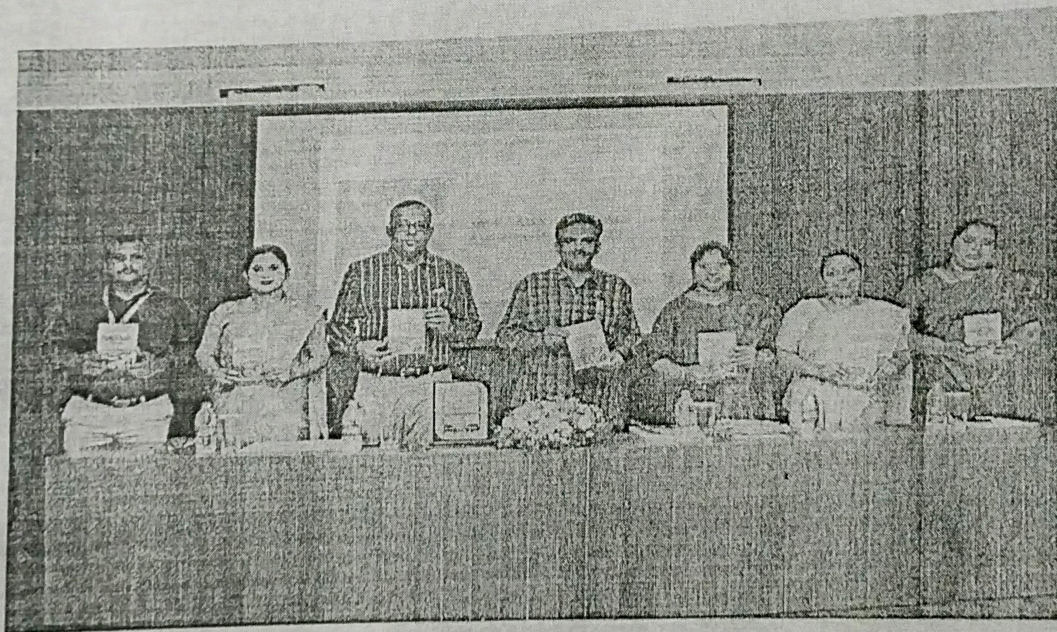
Inauguration and inaugural address was done by the chief guest Sri. Vinod Raj, Sub divisional Magistrate Kottayam, followed by the lamp lightening ceremony and he also presided the release of conference proceedings. He conveyed all the wishes and shared some experience of his professional life to students. A token of love from Mangalam family, a memento was given to the chief guest by our Vice principal, Ms. Neema George. Then inaugural function came to an end by 11.00 am with national anthem sung by our students.



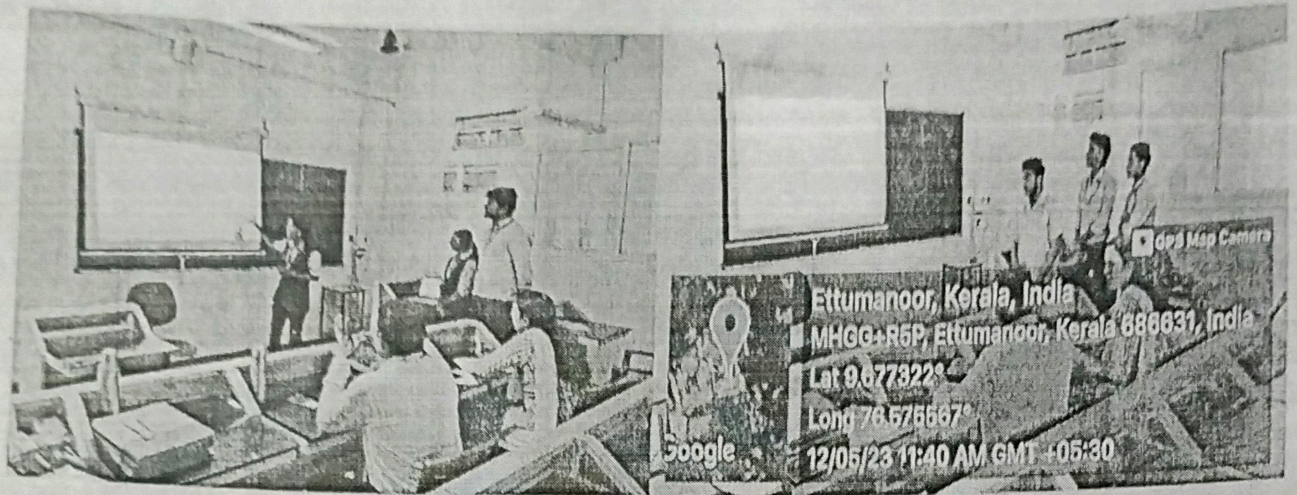




Before winding up the program, Dr. Lavanya Settupalli, Assistant professor, IIIT Kottayam, gave the keynote address to our department. She also conducted a small interaction session to our students. Dr. Sabu George, Associate professor of Computer Science department gave memento to Dr. Lavanya Madam. Also, he conveyed his gratitude behalf of Mangalam family, to Dr. Lavanya Madam, all faculty members and students.







The main aim of this conference was to bring together leading academicians, researchers, technocrats, practitioners, and students to exchange and share their experiences and research outputs on all aspects of Computer Science Engineering. It was also meant to provide a premier interdisciplinary platform to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the field of Computer Science Engineering.

The conference maintained a high-quality peer-review process for all the manuscripts submitted, starting with a primary evaluation that included a plagiarism check for the original contents. Rejections at this stage had either serious scientific flaws, very poor grammar or were outside the aim and scope of this Conference. Those that met the minimum criteria were passed on to experts in the domain for review. Single-blind review process was employed, where the reviewer remained anonymous to the authors throughout the process. Reviewers were requested to decide on accepting/rejecting the submitted paper, along with suggestions to improve the quality of the paper. After getting the review report, authors were informed of acceptance/rejection.

From the department, 34 internal papers and 14 external papers were presented. The papers will be published soon in IJERT ISSN : 2278-0181

Name & Signature of Coordinator

Prof. Dr. C. Sahaya Kingsly

Name & Signature of HOD

Ms. Neethu Maria John

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MANGALAM COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

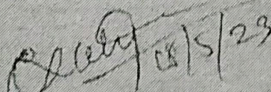
ICCIDT 2K23 - INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE & DIGITAL TECHNOLOGIES

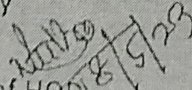
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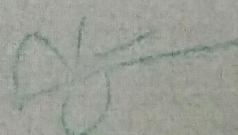
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1	Registration - External Participants (16)	40000
2	Registration - Internal Participants (40)	100000
TOTAL AMOUNT RECEIVED		140000

EXPENSES		
SL.NO	DESCRIPTION	AMOUNT
1	File Printing	8064
2	Parcel Charges	315
3	Bouquet	1000
4	Memento & color printing	1000
5	Pen printing	2150
6	Petrol Expenses	1000
7	Remuneration - Guest	5000
8	Conference Proceedings - Printing & DVD writing	2448
9	Photo	500
10	Refreshments for guest	750
11	Publication-IJERT - First Set (40 papers)	12000
12	Publication-IJERT - Second Set (16 papers)	4800
13	Food (150 nos)	22500
TOTAL AMOUNT SPENT		61527

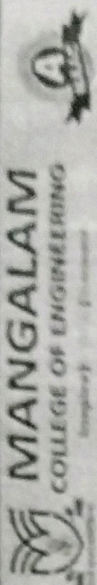
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1	Net Amount	78473
TOTAL AMOUNT		78473

  
Name & Signature of Coordinator  
Dr.C Sahaya Kingsly

  
Name & Signature of HOD  
Ms. Neethu Maria John

  
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MANGALAM COLLEGE OF ENGINEERING  
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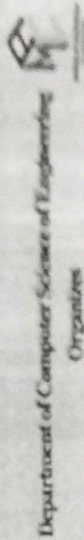


**MANGALAM**  
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Established in 1986

Ettumanoor, Kottayam, Kerala - 686 631.

Website: [www.mangalam.edu.in](http://www.mangalam.edu.in)



Department of Computer Science of Engineering

Organizes

**ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP) ON  
DATA SCIENCE USING PYTHON**

(24th January 2023 - 26th January 2023)

Timing: 6 PM to 8 PM

About MLMICE

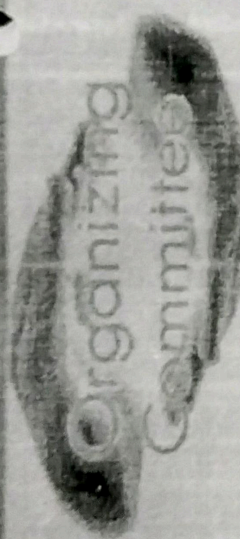
Mangalam College of Engineering commenced its establishment in the academic year of 2002. It has been recognized by the All India Council for Technical Education (AICTE), New Delhi and affiliated to Abolal Kalam Technological University (KTU), Kerala. The college has also been accredited by the National Assessment and Accreditation Council (NAAC) with A Grade and is promoted by the Mangalam Educational Society. The college stands supreme in the field of technical education with a high level of excellence and quality in education.

Preamble

This Online FDP is devoted to address the need to enhance the knowledge about the latest development pertaining to Data Science using Python is being conducted at Department of CSE, Mangalam College of Engineering Ettumanoor, Kottayam - 686631, Kerala. The whole course is handled by academicians and industry experts.

Major Course Contents

- 1.Data and Related Definitions
- 2.Data Analysis and Data Analytics
- 3.Categories of Data Analysis/Analytics
- 4.Key considerations in Data Analysis/Analytics
- 5.Types of Data Analysis/Analytics
- 6.Tools for Data Analysis/Analytics
- 7.Python Fundamentals
- 8.Random Sampling
- 9.Z-test, F-test and ANOVA
- 10.Regression, Classification and Clustering



Chief Patron

**Dr.Biju Varghese**  
Chairman

Patrons

**Dr.Vinodh P Vijayan**  
Principal

**Ms.Neema George**  
Vice Principal

Convener

**Dr.K.Ravikumar**  
HOD-CSE

Co-ordinators

**Dr.C.Sahaya Kingsly**  
Associate Professor / CSE

**Ms.Neethu Maria John**  
Assistant Professor / CSE

**Mr.Sanoj P Chacko**  
Assistant Professor / CSE

**Ms.Nayana N panicker**  
Assistant Professor / CSE

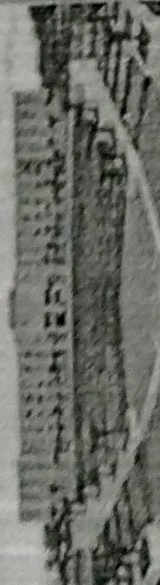
Contact

Mobile :+91-9496142986

Mobile :+91-9080846117

Mobile :+91-9947472025

Email : [sahaya.kingsly@mangalam.in](mailto:sahaya.kingsly@mangalam.in)



How to apply:

Participants are required to fill the online registration form by the following link:  
<https://biturl.com/627w6k6z>

Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 100 (hundred). The list of selected participants will be intimated through e-mail. Candidates will be issued satisfactory certificates on successful completion of the course.

Important dates:

Last date for submission of Application:

23.01.2023 (11:59 PM)

Selection List by E- mail:

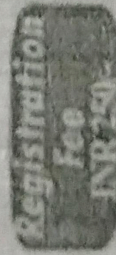
24.01.2023 (11:59 AM)

Duration:

24.01.2023 (Tuesday) to 26.01.2023 (Thursday)  
6:00 PM to 8:00 PM

Note:

The FDP link will be send through your registration mail ID only.



Participants need to pay the registration fee through

the following link:  
<https://biturl.com/627w6k6z>  
MANGALAM COLLEGE OF ENGINEERING  
Ettumanoor

Online Transfer Details

Bank : Axis Bank

Account No: 919010013966670

IFSC: UTIB0003213

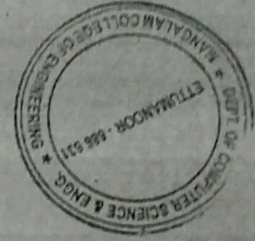




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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FDP on DATA SCIENCE USING PYTHON

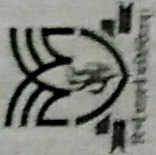
SL.NO	CONTENTS
1	BROUCHURE
2	LIST OF PARTICIPANTS
3	PROGRAM SCHEDULE
4	REPORT
5	FEEDBACK FORM SAMPLE
6	FEEDBACK REPORT
7	PHOTOS & PARTICIPANTS
8	PARTICIPANTS CERTIFICATE



A handwritten signature in green ink, appearing to be the name of the principal.

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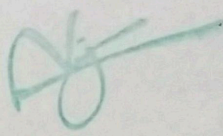




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DEPARTMENT OF COMPUTER SCIENCE AND  
ENGINEERING

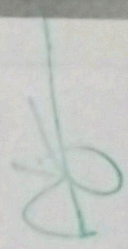
LIST OF PARTICIPANTS

Sl.No	NAME	COLLEGE	MAIL-ID
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10	Anish Augustine K	SJCET, Palai	rahulshajan@sjcetpalai.ac.in

  
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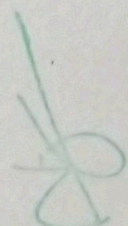
11	Sumithmon K S	IIIT Kottayam	sumithmonk019@iitkottayam.ac.in
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42	Sanniya Shaji	St. Joseph's Institute of Technology, CMR, Chennai	janniff-thiruvral1780@gmail.com

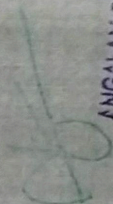
18/11/20

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Program Schedule:-

Day and Date	Course Contents
Day1: Tuesday, 24/01/2023	Data and Related Definitions, Data analysis and Data Analytics, Categories of Data Analysis/Analytics, Tools for Data Analytics, Python fundamentals, Key Considerations in Data Analysis/ Analytics, Z-Test, T-Test, Regression.
Day2: Wednesday, 25/01/2023	Regression, ANOVA, Autocorrelation, Logistic Regression, Bayes' Theorem for classification, Decision Trees, Bagging, Boosting, and Random Forest, Hyperplane for classification, Model estimation, Support Vector Machine.
Day 3: Thursday, 26/01/2023	Confusion Matrix, Accuracy, Precision and Recall, F1- Score and AUC, Curse of Dimensionality, cross-validation, Training, Validation and Testing, Overfitting, Underfitting, Regularization, Bias and Variance.

  
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## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

A Report on

Faculty Development Program on 'Data Science Using Python'

Organized by


Department of Computer Science and Engineering, Mangalam College of Engineering,  
Kerala, Kottayam

Department of Computer Science and Engineering has organized 3 Day Faculty Development Program (FDP) on "Data Science Using Python" from 24th January to 26th January 2023. Dr Sathiya Narayanan Sekar in his speech addressed all the audience by her precious words. He started with the evolution of computer hardware and software. He continued to revise the change in technology and its importance. Later he discussed the needs of latest programming languages such as Python, R-programming etc.

About the FDP:-

The vision of this FDP is to enhance the quality of education imparted in institutions by providing faculty members with a platform to learn all they need to know about Data Science Using Python. Educators will get to learn the best practices in these domains so that they can teach the future workforce the required skill sets.

**Data Science:-** An interdisciplinary field, data science deals with processes and systems that are used to extract knowledge or insights from large amounts of data. Data extracted can be either structured or unstructured. Data science is a continuation of data analysis fields like data mining, statistics, predictive analysis. A vast field, data science uses a lot of theories and techniques that are a part of other fields like information science, mathematics, statics, chemometrics and

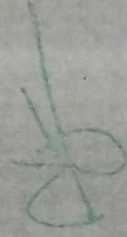
  
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computer science. Some of the methods used in data science include probability models, machine learning, signal processing, data mining, statistical learning, database, data engineering, visualization, pattern recognition and learning, uncertainty modeling, computer programming among others. With advancements of so much of data, many aspects of data science are gaining immense importance, especially big data. Data science is not restricted to big data, which in itself is a big field because big data solutions are more focused on organizing and pre-processing the data rather than analyzing the data. In addition, machine learning has enhanced the growth and importance of data science in the last few years. Data has real value and every information extracted from it can make or break businesses. Analytics is the intersection of business and data science, offering new opportunities for a competitive advantage. It unlocks the predictive potential of data analysis to improve financial performance, strategic management, and operational efficiency. Data analytics can lead to valuable insights that can determine leads to increase sales, fraud detection, pattern recognition and risk prediction in various domains. As part of this initiative, a Faculty Development Programme (FDP) is conducted to focus on the fundamentals of data science with hands-on sessions on every topic handled using python.

#### **OBJECTIVES OF FDP:-**

The principal purpose of Data Science is to find patterns within data. It uses various statistical techniques to analyze and draw insights from the data. From data extraction, wrangling and pre-processing, a Data Scientist must scrutinize the data thoroughly.



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6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years  
(5)

Dates (from-to) (DD-MM-YYYY)	Title of the professional development program organised for teaching staff	Title of the administrative training program organised for non-teaching staff	No. of participants	Academic Year
7.06.2023	Expert Talk on Innovation Start up Ecosystem Enablers in association with IIC and IEDC		50	2022-2023
24.05.2023	Expert Talk on IPR and IP Mangement for Start up in association with IIC and IEDC		53	
30.1.2023 to 2.02.2023	FDP on Recent Trends in grid integration		35	
2.12.2022	Inauguration of EEE Association and Seminar on Smart Grid		115	
30.11.2022	Workshop on Problem Solving and Ideation		110	

Prepared by  
Ms.Shoma Mani

Verified by  
Dr.Honey Baby

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EX-10001





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Cir. EEE\_02/2022-23

Date: 01/06/2023

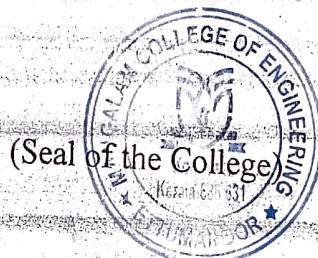
**Circular**

*(To be published on all departments/ hostel, library notice boards)*

The Electrical and Electronics Engineering Department is an expert talk on Innovation Startup Ecosystem Enablers in association with IIC and IEDC on 07/06/2023, 06:30pm in Online Google platform. The resource person will be Dr. Vipin Gopan, Assistant Professor and CEO of KINESYS TECH Solutions and CTO • ENCLEANERS. Those who are interested may please fill the registration form forwarded to you.

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Principal







# EXPERT TALK ON :

## “INNOVATION START UP ECOSYSTEM ENABLERS”

**ORGANIZED BY:**

**EEE DEPARTMENT**

**MANGALAM COLLEGE OF ENGINEERING**

**IN ASSOCIATION WITH IEDC AND IIC**

**VENUE : ONLINE GOOGLE PLATFORM**

**TIME : 6:30PM TO 7:30PM**



**SPEAKER**

**DR. VIPIN GOPAN**

**CEO: KINESYS TECH SOLUTIONS**

**CTO: ENCLEANERS**

**JOIN FREE: <https://forms.gle/kgezPynTQX5ZVqKc7>**

**COORDINATED BY : DR. BINCY K JOSE  
MS. DIVYA JOSE**



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EMUMANOOR**



meet.google.com/kuq-zuce-hdm?authuser=0

The screenshot shows a Google Meet interface with a grid of 24 participants. The participants are arranged in a 4x6 grid. The names of the participants are: Jolly Georgo, Juby Siby, Dr. Binny Jose, Akash Varma, Sebastian K Ch..., Dr. Vipin Gopan (highlighted), ANJU RAJU, Abin Chacko, Aswin Aji, Athira TP, Sreyas MB, Jubin Biju, Alshin Ansari, Abin Mathew, Jatin P Jose, Alshya Philip, Liyana N, Vishnu Shaji, Neena G Krishn..., Ashwin prasad, Linto John, S Loola, 9 others, and You. The bottom of the screen shows a toolbar with icons for chat, mute, video, and other controls. The time is 7:05 PM and the location is kuq-zuce-hdm. The weather is 27°C with heavy rain. The bottom right corner shows the system tray with network, volume, and battery icons, and the date 6/11/2023.

**People**

Mute all Add people

Search for people

In call

- Diya Jose (You) Muting host
- Abin Chacko
- Abin Mathew
- Akash Varma
- Abin Thomas

7:05 PM | kuq-zuce-hdm

27°C Heavy rain

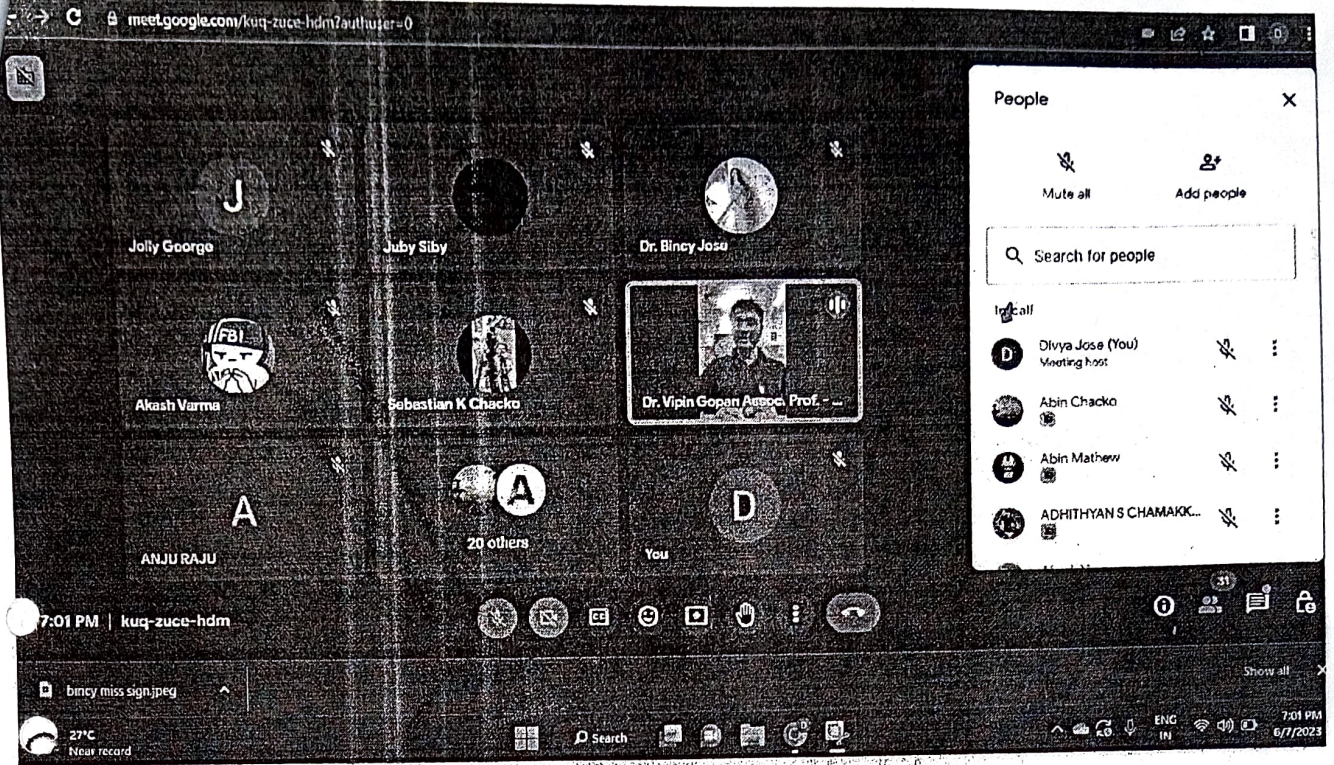
ENG IN

7:05 PM 6/11/2023

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meet.google.com/kuq-zuce-hdm?authuser=0

The screenshot shows a Google Meet session with the following participants in the grid:

- Jolly George (Initials: J)
- Juby Siby (Initials: JS)
- Dr. Bincy Jose (Initials: BJ)
- Akash Varma (Initials: AV)
- Sebastian K Chacko (Initials: SKC)
- Dr. Vipin Gopan Assoc. Prof. - Dept... (Initials: VG)
- ANJU RAJU (Initials: A)
- 16 others (Initials: A)
- You (Initials: D)

The 'People' sidebar on the right lists the following participants:

- Divya Jose (You) - Visiting host
- Abin Chacko
- Abin Mathew
- Ahammed Arafath
- Akash Varma

At the bottom of the screen, the time is 6:53 PM and the meeting ID is kuq-zuce-hdm. The system tray shows a temperature of 27°C, rain showers, and the date 6/7/2023.

*[Handwritten signature]*

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Date:10/06/2023

## Report:An Expert Talk on Innovation Startup Ecosystem Enablers

### Description of the events

The Electrical and Electronics Engineering Department conducted an expert talk on Innovation Startup Ecosystem Enablers in association with IIC and IEDC. The resource person was Dr. Vipin Gopan, Assistant Professor and CEO of KINESYS TECH Solutions and CTO: ENCLEANERS. The workshop was conducted on 07<sup>th</sup> June 2023 in online Google meet platform. The session started at 06.30pm and has concluded at 07.30 pm. Total number of participants attended were around 50, which includes students of 4<sup>th</sup>, 3<sup>rd</sup>, 2<sup>nd</sup>, 1<sup>st</sup> year students and faculties from various department has attended this workshop.

This talk mainly focusing on Innovations and ideas that need to be reformed into startups and the steps to be followed in starting a company. IP protection puts legal checks on your competition, preventing others from infringing on and profiting from your property. The purpose of intellectual property laws is to protect your ideas, which is the driving force behind your startups and concepts that underpin your startup. The resource person stated the importance of filing an IP for ideas. He also described the various ways to move forward with students' ideas and resources available for them in constructing their prototype. He explained about ecosystem enablers who all are available for a normal person to go on with entrepreneurship. The session lasted for an hour and ended with QA.

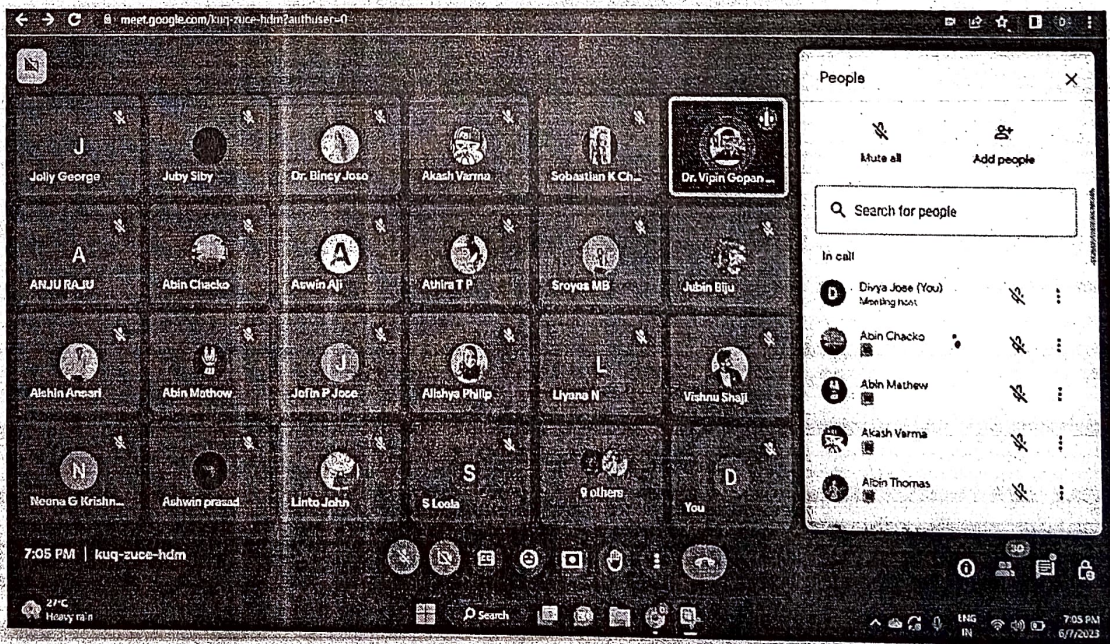


Figure 1: Photos for welcoming Dr. VibinGopan for the talk





Date:10/06/2023

## Report:An Expert Talk on Innovation Startup Ecosystem Enablers

### Description of the events

The Electrical and Electronics Engineering Department conducted an expert talk on Innovation Startup Ecosystem Enablers in association with IIC and IEDC. The resource person was Dr. Vipin Gopan, Assistant Professor and CEO of KINESYS TECH Solutions and CTO: ENCLEANERS. The workshop was conducted on 07<sup>th</sup> June 2023 in online Google meet platform. The session started at 06.30pm and has concluded at 07.30 pm. Total number of participants attended were around 50, which includes students of 4<sup>th</sup>, 3<sup>rd</sup>, 2<sup>nd</sup>, 1<sup>st</sup> year students and faculties from various department has attended this workshop.

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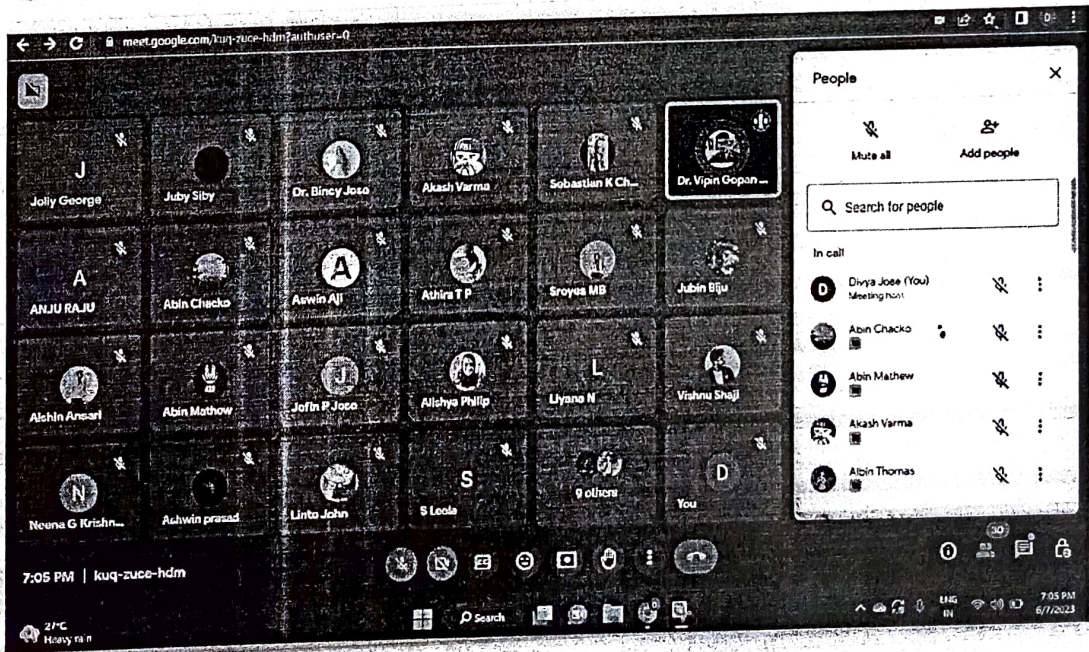


Figure 1: Photos for welcoming Dr. VibinGopan for the talk



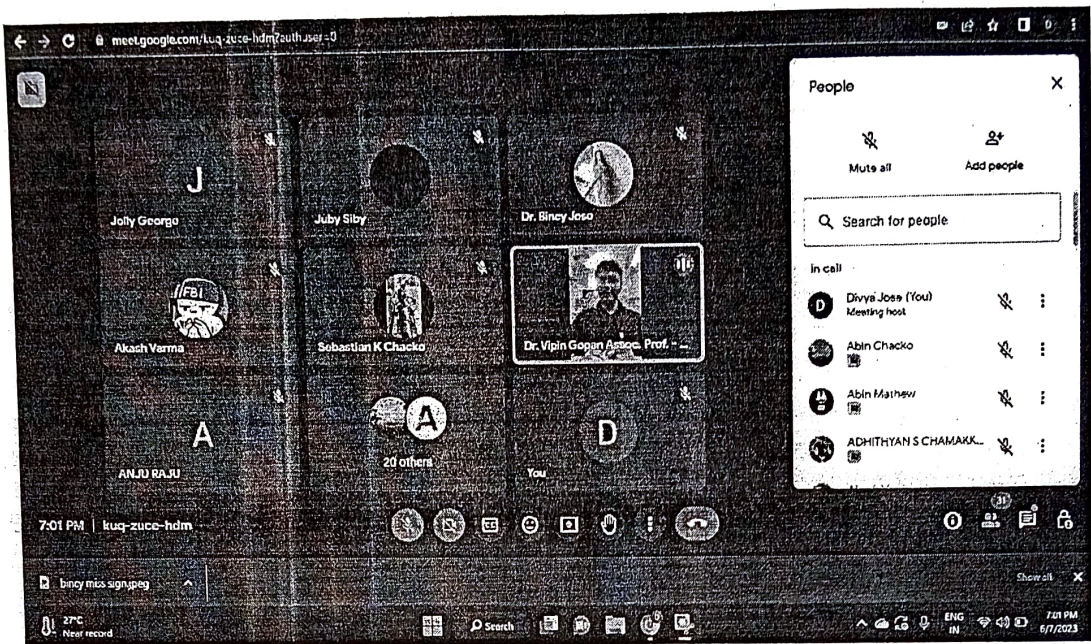


Figure 2: Resource person sharing his ideas and experience about how his company was established

**Outcome of the Event**

Students and faculties understood about Intellectual property right and intellectual property management for startups. IEDC also provide basic and necessary guidance for startups and they are the fundamental ecosystem enablers. Also discussed about the basic steps to be followed in while filing a patent and its importance. Many of the doubts about this area were cleared during this section. In this section also discussed about future of engineers in entrepreneurship. This talk encouraged students and faculties to develop their ideas into products with IPR rights.

(Seal of the College)

Name & Signature of the In-Charge

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Kottayam

HoD/Convener

(Seal)

IOAC  
Internal Quality Assurance Cell (IOAC)  
S. Mangalam College of Engineering  
Kottayam, India - 686 631

(Seal)

Principal





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Date. 07/06/2023

**Attendance Details of Report: Expert Talk on "Innovation Startup Ecosystem Enablers"**

S:No	Participants Name	Designation	Year /Branch/Section
1.	Divya Jose	Assistant Professor	EEE
2.	Dr.Bincy K Jose	Associate Professor	EEE
3.	ASWIN AJI	STUDENT	IV/EEE/A
4.	Anju Raju	Assistant Professor	CE
5.	GIBU K THOMAS	STUDENT	IV/EEE/A
6.	Akash Varma	Student	IV/EEE/A
7.	ALISHYA PHILIP	STUDENT	IV/EEE/A
8.	Adhithyan. S	Student	IV/EEE/A
9.	Liyana N	Student	IV/EEE/A
10.	Sebastian K Chacko	Student	IV/EEE/A
11.	Subin M John	Student	IV/EEE/A
12.	ABIN MATHEW	Student	IV/EEE/A
13.	Jubin Biju	Student	IV/EEE/A
14.	Blessy A Rahiman	Student	IV/EEE/A
15.	Emil Mathew Biju	Student	IV/EEE/A
16.	Ashwin Prasad R	Student	IV/EEE/A
17.	LINTO MATHEW P JOHN	STUDENT	IV/EEE/A
18.	Sanjay k. G	Student	IV/EEE/A
19.	Jefin P Jose	Student	III/EEE/A

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20.	Midhun S Babu	Super	III/EEE/A
21.	Manaf Nizar	Student	III/EEE/A
22.	ANANDHU PRAVEEN	STUDENT	III/EEE/A
23.	Sreyas .mb	Student	III/EEE/A
24.	ASWIN KUMAR K S	Student	III/EEE/A
25.	Mohamad Sha K	Student	III/EEE/A
26.	Albin Thomas	Student	III/EEE/A
27.	MIDHUN VENU	STUDENT	III/EEE/A
28.	JUSTIN PETER	STUDENT	III/EEE/A
29.	AdvaithHaridas	Student	III/EEE/A
30.	Juby Joseph	Student	III/EEE/A
31.	Abhijith N Shenoy	Student	III/EEE/A
32.	Alshin Ansari	Student	II/EEE/A
33.	Anandeshwer ER	Student	II/EEE/A
34.	Sanjay sajan	Student	II/EEE/A
35.	Ashik K R	STUDENT	II/EEE/A
36.	Vishnu A S	Student	II/EEE/A
37.	Rizwan Abdul Rahim	Student	II/EEE/A
38.	Nandu Parameswaran	Student	III/EEE/A
39.	Likhitha S Shenoi	Student	III/EEE/A
40.	Neena G Krishna	Assistant Professor	CSE
41.	Siva Prasad	Student	I/EEE/A
42.	Arun.p	Student	III/CSE/A

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43.	Naveen Sunil	Student	III/CSE/A
44.	Jyothisree K R	Assistant Professor	ECE
45.	Divya S B	Assistant Professor	CSE
46.	Neethu Maria John	Assistant Professor	CSE
47.	KRUPA ANN KURIAN	Assistant Professor	EEE
48.	Dr.S.Leela	Professor	EEE
49.	Vighnesh D Chandran	Student	II/ECE
50.	Lulu Makar	Assistant Professor	CE

Name & Signature of the In-Charge

HoD/Convenor

Internal Quality Assurance Cell (IQAC)  
Mangalam College of Engineering  
Kottayam, India - 686 631

Principal

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Kottayam





INNOVATION AND  
ENTREPRENEURSHIP  
DEVELOPMENT CENTRE



INSTITUTION'S  
INNOVATION  
COUNCIL  
(Ministry of Education Initiative)

## Certificate of Participation

*This is to certify that Mr./Ms. Likhitha S Shenoi, Mangalam College of Engineering, Mangalam College Of Engineering, has attended an expert talk on "Innovation and Startup Ecosystem Enablers" on 07.06.2023 organized by EEE Department in association with IEDC and IIC of Mangalam College of Engineering.*

Co-ordinator



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# Feedback Form for Session on Startup Ecosystem Enablers

Feedback on Innovation and Startup ecosystem enablers conducted on 06/06/2023 at 6:30 PM in online google platform. Resource Person: Dr. Vipin Gopan, CEO, Kinesys Tech Solutions and CTO, Encleaners. The activity is conducted under IIC and IEDC and is organized by Electrical and Electronics engineering department of Mangalam College of Engineering

The respondent's email (aswinaji2004@gmail.com) was recorded on submission of this form.

Full Name \*

ASWIN AJI



Designation \*

STUDENT

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ANGALAM COLLEGE OF ENGINEERING  
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College Name \*

MANGALAM COLLEGE OF ENGINEERING

Please rate the speaker's knowledge about the topic: \*

Excellent

Good

Fair

Poor

Is the topic useful for field of work? \*

Very good

Good

Acceptable

Poor

Very poor



Was the section Informative? \*

- Excellent
- Good
- Fair
- Poor

Were your expectations met? \*

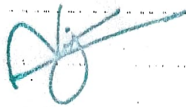
- Yes
- No
- Maybe

Overall, how satisfied were you with the talk? \*

- Very satisfied
- Satisfied
- Neutral
- Dissatisfied

What do you think were the Weakness of this session? \*

Nil



This form was created inside of Mangalam College of Engineering, Kerala - India..

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Google Forms





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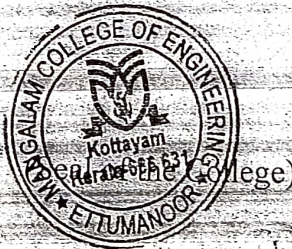
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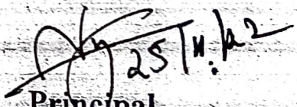
Date: 25/11/2022

**Circular**

*(To be published on all departments/ hostel, library notice boards)*

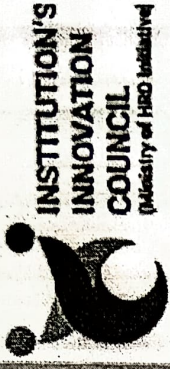
The Electrical and Electronics Engineering Department is a workshop on Problem solving and ideation on 30/11/2022, 02.00pm at Digital Theatre, Mangalam college of Engineering. The resource person is Mr. Abi Varghese, Asst. Professor, ME Dept., Amaljothi college of engineering. Those who are interested may please fill the registration form forwarded to you.



  
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# Problem Solving and Ideation Workshop

MANGALAM COLLEGE OF  
ENGINEERING

On 30/11/2022

Timing : 2:00 PM to 4:00 PM

Venue : Digital Theatre, MLMCE



Mr. Abi Varghese

Assistant Professor | AJCE

Pursuing Ph.D in Ergonomics and Product  
design from NIT, Calicut

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# Registration for PROBLEM SOLVING & IDEATION WORKSHOP

This workshop is organized by

Institution & Innovation Council cell of Mangalam college of Engineering .

Objectives of the workshop are:

1. To provide opportunities to Undergraduate Students, Postgraduate students and faculty members to augment Knowledge & skills in key areas involved in Problem Solving and Ideation process .
2. To provide Best Student Entrepreneurship Practices that can be adopted to enhance the student's abilities in solving critical problems.

\* Required

1. Student name \*

---

2. Class & Division \*

---

3. Contact number \*

---

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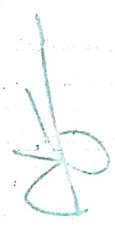
This content is neither created nor endorsed by Google.

Google Forms



# Registration Response sheet

Timestamp	Email Address	Student name	Class & Division	Department	email id	Contact number
12/1/2022 9:05:14	sreyasna3089@gmail.com	Sreyas V Nair	Cse 5B			+91 62380 76693
12/1/2022 9:05:17	pranavipranav64@gmail.com	Pranav S	Chemical engineering S3			6238990644
12/1/2022 9:05:23	sureshsha1662003@gmail.com	Anand Suresh	CSE S3A			8589936359
12/1/2022 9:06:55	jbinchelakatu2125@gmail.com	J Bin Biju	Cse S3 A			9495617532
12/1/2022 9:12:57	jupinkingrock28@gmail.com	Jupin Biju	S7,EEEE			9400566451
12/1/2022 9:57:37	akashd8667@gmail.com	AKASH R NAIR	S7 A BEACH			6238809739
12/1/2022 10:37:48	wairerx309@gmail.com	Vaishnav varrier	Civil s3 b			6238984932
12/1/2022 10:39:20	joyelbenny2003@gmail.com	Joyel benny	S3 CE B			7909219812
12/1/2022 10:41:15	jayakrishnanpg2026@gmail.com	Jayakrishnan PG	S3 CE B			7907690866
12/1/2022 11:15:05	allwinva1ex@gmail.com	Allwin V Alex	S5 ME A			6282794929
12/1/2022 11:48:41	maheswaru84@gmail.com	Uma Maheswar P	CIVIL S3 B			9188243491
12/1/2022 11:51:12	sree123panvathi@gmail.com	Sree Parvathi P	CIVIL S3 B			7736276954
12/1/2022 12:52:30	maheshnarayanan554@gmail.com	Maheshi Narayanan	S5 ME A			9778341492
12/1/2022 13:34:46	harikrishnanps101@gmail.com	Harikrishnan ps	S5B			7907965249
12/1/2022 14:27:19	akashmwonopr112@gmail.com	Akash R	Chemical S3			9567906034
12/1/2022 14:27:24	tupoomasree@gmail.com	Poomasree. T. U.	Chem S3			7306664953
12/1/2022 14:28:31	induzz2004@gmail.com	Krishnendu T	Chemical S3			9037466417
12/1/2022 14:38:41	sajimchali321@gmail.com	Salim c shajahan	S7			9567911801
12/1/2022 14:40:41	izwanabduurahim40@gmail.com	Rizwan Abdulrahimi	EEE S7			9605929444
12/1/2022 15:14:50	arun2003shaji@gmail.com	Arunshaji	Me S1			9072894190
12/1/2022 15:24:41	ansalpharis@gmail.com	Ansaf P Haris	S3 ME A			8943254197
12/1/2022 15:26:04	kiranjose877@gmail.com	Kiran Jose	S3 ME A			8590318352
12/1/2022 16:00:38	abhishekkannand2017@gmail.com	Abhishek D	S3 me A			8921939973
12/1/2022 16:07:36	abhiramima9061@gmail.com	Abhirami M A	Chemical engineering S3			9061738753
12/1/2022 16:12:30	athulr552@gmail.com	Athul Raj TJ	Mechanical B S5			94967 53150
12/1/2022 16:19:37	abhijithmanojp4@gmail.com	Abhijith Manoj	Mech (A Batch)			8078758652
12/1/2022 16:20:21	anandhualackal@gmail.com	Anandhu	Me a s1			8590485901
12/1/2022 16:20:50	akpilla1973@gmail.com	Ananthu A Pillai	ME A			8281214286
12/1/2022 16:21:22	anandhualackal@gmail.com	Lakshmi Priya	S7 ME A			9497504372
12/1/2022 16:24:04	kichujoshiy04@gmail.com	ADWAIT JOSHY	MECHA			6238445675
12/1/2022 16:26:00	justinjoyalqoney691@gmail.com	Jestin Joyal Joney	EEE S7			9074939758
12/1/2022 16:44:44	arjunbabu5577@gmail.com	Arjun babu	EEE S7			8592956676
12/1/2022 16:52:04	nandupnair36@gmail.com	Nandhu Parameswaran	EEE S7			7306134918
12/1/2022 16:53:39	aswathykrishna1810@gmail.com	Aswathy krishna	Fee			9495472330
12/1/2022 16:58:13	tomalpy2001@gmail.com	Tom Thomas	EEE			9400958171



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Timestamp	Email Address	Student name	Class & Division	Department	email id	Contact number
11/30/2022 21:15:31	jyothsreekr@mangalam_jyothsreekr	Jyothsreekr R	eee dept	EEE	jyothsreekr@gmail.com	
11/30/2022 23:31:43	jyothsreekr@gmail.com	Jyothi	eee	EEE		9946279032
12/1/2022 6:56:36	akashkrinh1234@gmail.com	Akash T	Mechanical/S5-B			9061149640
12/1/2022 7:12:18	yakobbinoy9747@gmail.com	YAKOB BINOY	Mechanical/S5 A			9544956060
12/1/2022 7:12:37	sonyantony574@gmail.com	Sony Antony	Mech S5 A			9074027930
12/1/2022 7:19:52	arunseanthosh0936@gmail.com	Arun santhosh	ME B S3			9188695458
12/1/2022 7:23:07	varshala57@gmail.com	Varsha Lal	S5 mechanical/A			9736017439
12/1/2022 7:23:57	vishnuhaidasia@gmail.com	Vishnu Haidas	Second year B, Tech (S3 ME B)			7306826880
12/1/2022 7:23:59	unnivictu333@gmail.com	Aronal Madhu	S5 mechanical A			9495989595
12/1/2022 7:25:19	ashikthomas75@gmail.com	Ashik Mathew Thomas	Cse A			907557845
12/1/2022 7:29:35	aronalromalrajs@gmail.com	Aronal Raj	S5 A			9061605527
12/1/2022 7:31:23	vysnnavignath@gmail.com	Vysnnavi G Nath	S7-B			82810053662
12/1/2022 7:32:53	jittaeisajoby@gmail.com	Jitta Elsa Joby	S5b			9496020150
12/1/2022 7:35:11	jaycebenraj24@gmail.com	JAYCE BEN RAJ	CSE 5B			9567985942
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12/1/2022 7:45:17	arjunkrishna9646@gmail.com	Arjun Krishna	ME-A			8078580576
12/1/2022 7:45:22	stelinsabai01@gmail.com	Stelin Shabu	CSE S5: B			6393563240
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12/1/2022 7:46:08	sujithsam17@gmail.com	Sujith Sam Saiju	CSE B, S5			7907890193
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12/1/2022 7:55:59	badbid007@gmail.com	Sreehari	CSE_S5_B			8590205393
12/1/2022 7:56:38	athuljohnson5817@gmail.com	Athul Johnson	CSE S5A			6238864944
12/1/2022 8:01:45	alanbilju2222@hotmail.com	Alan Bilju	CSE S3 A			7736201261
12/1/2022 8:01:50	abhinav632004@gmail.com	Abhinav K Binu	S1 mechanical/Abatch			6238866453
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12/1/2022 8:36:22	streyesmb2003@gmail.com	Streyes mb	Civil B			8157830985
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12/1/2022 8:48:57	jeemonchristieena@gmail.com	Christieena Jeemon	CE B S3			7356171482
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Timestamp	Email Address	Student Name	Class & Division	Department	email id	Contact number
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12/1/2022 2:26:53	aghnesh21@gmail.com	Ks aghneshkrishna	Mech a			9947485188
12/1/2022 2:42:39	anandprasada459@gmail.com	Anand Prasad	S5 ME A			6282274734
12/1/2022 2:48:07	binivarghese19@gmail.com	Ribini Varghese	S5 ME A			9074527514
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12/2/2022 6:06:28	justinjjoy265@gmail.com	Justin Joy	S3 ME-B			9562422002
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12/2/2022 9:00:00	adarshrajesh@gmail.com	R Adarsh	S5 B			8714393221
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12/2/2022 9:03:03	marifnmj1666@gmail.com	Martin Joy	S5,B			7306043303
12/2/2022 9:05:09	jithinjyopooovelli2002@gmail.com	Jithin joy	S5 b			6238660587
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12/2/2022 9:06:44	joeithomasmathai027@gmail.com	Joel thomas mathai	CSE 5B			9188198218
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12/2/2022 9:07:22	safinjohny1@gmail.com	Safin johny	CS 5B			9061141150
12/2/2022 9:07:50	joeithomasmathai027@gmail.com	Joel thomas mathai	Cse 5B			9188198218
12/2/2022 9:10:25	amalsanthosh696@gmail.com	Amal c santhosh	CSE S5 a			8848299972

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Timestamp	Email Address	Student name	Class & Division	Department	email id	Contact number
12/1/2022 17:06:26	peninjajose2001@gmail.com	Penina Jose	S7, EEE			
12/1/2022 17:10:16	astisyaad136@gmail.com	Asif ms	S3 A ME			7560976780
12/1/2022 17:12:51	nakulanikumulam66@gmail.com	nakulan kumulam	eee s7			9562596384
12/1/2022 17:19:20	parvatyppbju1@gmail.com	Parvaty, P. Biju	CWIB			9562703295
12/1/2022 17:35:10	muheina.nashin2003@gmail.com	Muhsina nashin	Ce s3 b			9961062167
12/1/2022 17:36:46	muheina.nashin2003@gmail.com	Muhsina nashin	S3 ce B			8590482926
12/1/2022 18:24:29	kdakshinath74@gmail.com	Dakshith Nath K	Chemical/S3			8590482926
12/1/2022 18:25:44	amalthomas04@gmail.com	Amal V Thomas	ME, A batch			6282769920
12/1/2022 18:26:39	asthibiju2004@gmail.com	asthibiju B	Mech S1 A			9446996415
12/1/2022 18:27:59	ndevika501@gmail.com	Devika M	Chemical			8699897938
12/1/2022 18:30:53	saljan.nakulan@gmail.com	ALEN ELIAS VARGHESE	S5 A			7306894723
12/1/2022 18:32:40	monishzacharant2000@gmail.com	Monish Zacharia	CSE S5 B batch			7028094763
12/1/2022 18:32:51	lg9614330@gmail.com	Nikhil prasad	S3 ME B			9495054131
12/1/2022 18:37:29	preethisathesh1760@gmail.com	Preethi Sathesh	S5 ME A			6282433251
12/1/2022 18:40:20	pravyashpkrakash@gmail.com	Pravyash P. Prakash	ME A			6235279606
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12/1/2022 18:53:20	sandeepsadanandan200@gmail.com	Sandeep Sadanandan	S3me B			8089281429
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12/1/2022 20:04:07	anjalyanjalyanilkumar@gmail.com	Anjali K a	Cse s5			7012238471
12/1/2022 20:08:50	griffithchacko@gmail.com	Griffith chacko	B tech. mechanical			9746117054
12/1/2022 20:15:19	parvatyrajeev715@gmail.com	Parvaty Rajeev	Civil Semester-5B batch			7356084511
12/1/2022 20:15:56	mahimamahoj6920@gmail.com	Mahima Mahoj	CE S5-B			9087108715
12/1/2022 20:17:14	pabhihith03@gmail.com	Abhihith	Cse a			9645665304
12/1/2022 20:22:45	aromals035@gmail.com	Aronal. Susheelan	Mechanical engineering A			7356225106
12/1/2022 20:30:56	nandanasaajeks@gmail.com	Nandanasaaj	S3 CE B			6282337485
12/1/2022 20:31:28	lakshmipliju@gmail.com	LAKSHMI P BIJU	S5 CIVIL -B			7306632351
12/1/2022 20:32:55	amanthakrishnanhb8@gmail.com	Amanthakrishnan B	S3MEB			9644665083
12/1/2022 20:32:56	chinmuree9083@gmail.com	Chinmuree Ajimon	CWIB			77356674406
12/1/2022 20:34:35	jiyothikm2002@gmail.com	Jiyothi P B	CWIB S5 B			77025129381
12/1/2022 20:45:08	sandrayajyese34@gmail.com	Sandra Varghese	CE S5 B			9999141035
12/1/2022 21:03:43	varshasajy@gmail.com	Varsha N S	CE S5B			8945966393
						7736383603

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Timestamp	Email Address	Studentname	Class & Division	Department	email id	Contact number
12/2/2022 9:10:26	abeldavidrajan@gmail.com	Abel David Rajan	S5 A			7356747337
12/2/2022 9:11:00	ap678015@gmail.com	Arun ps	CS S5			9061924623
12/2/2022 9:11:38	aswinmano13@gmail.com	Aswin M	CSE S5 A			8075068056
12/2/2022 9:54:30	geosunny008@gmail.com	Geo sunny George	EEE S3			9496502993
12/2/2022 10:37:00	alansabuerumpumtharim Alan Sabu	Alan Sabu	S5 A			8281559237
12/2/2022 10:43:16	adithyankrishnan43@gmail.com	Adithyan Krishna P.T	Mech Engineering batch A			6238909789
12/2/2022 10:44:52	rajeshmonichair@gmail.com	Rajesh Monichair	Mech Engineering Batch A			9037272850
12/2/2022 10:46:29	abhijithanayan03@gmail.com	Abhijith Aniyyan	Mechanical engineering/A			9744056311
12/2/2022 10:54:16	ashishsakkul@gmail.com	Ashish Sasikumar	ME A S1			8943306252
12/2/2022 10:55:26	alankoliappallil@gmail.com	Alan Sebastian	ME S1 A			8714261809
12/2/2022 11:06:00	vettukuzhyilhouse@gmail.com	Alan Baby	CSE S5A			9496441296
12/2/2022 11:07:19	georythomas999@gmail.com	Georgy Thomas	CSE S5 A			7356879613
12/2/2022 11:09:08	christoyiac2002@gmail.com	Christy Cyriac	CSE S5 A			7356838778
12/2/2022 11:09:28	aayushraj1601@gmail.com	Ayush K Raj	S5 A CS DEPT			9526478046
12/2/2022 11:10:38	georgekutyputhusseryil@gmail.com	Georgekutty s Puthusser	CSE S5 A			9495246984
12/2/2022 11:11:37	ashishjohnmani@gmail.com	Ashish John Mani	S5 A CSE			8139819015
12/2/2022 11:11:47	christopajeesh@gmail.com	Christo P Ajeesh	CSE S5 A			7034492979
12/2/2022 11:24:35	arjunmohand23@gmail.com	Arjun Mohan C	CSE S5 A			8075589508
12/2/2022 11:25:31	akhilkurian74@gmail.com	Akhil Kurian	CSE S5A			8547361498
12/2/2022 11:26:39	anukuri08@gmail.com	Anu Kurien	CSE S5A			7559054576
12/2/2022 11:34:00	shonbenjyvj@gmail.com	Shon benjny	CSE S5 B			8138034226
12/2/2022 11:40:17	maneesh2142@gmail.com	Maneesh S	S5 A mech			7736819960
12/2/2022 11:58:11	harthyquien7@gmail.com	Sebin Sabu	CSE S5 B			7510853286

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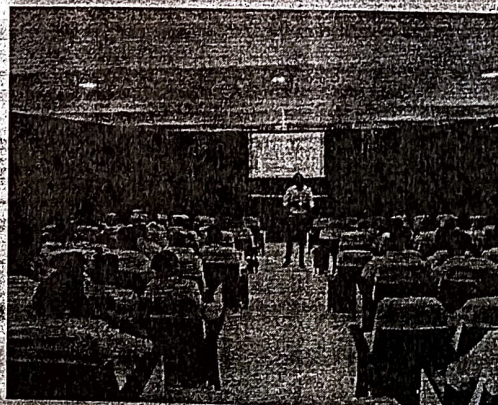
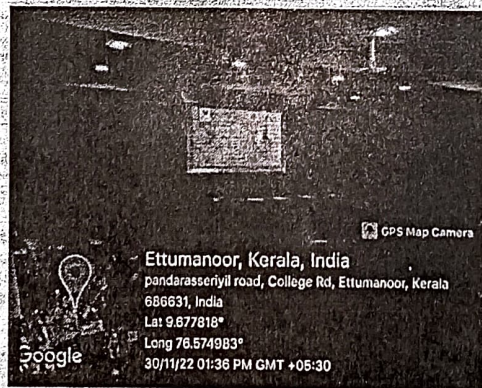
Date: 02/12/2022

## Report: Problem Solving and Ideation Workshop

### Description of the events

The Electrical and Electronics Engineering Department conducted a workshop on Problem Solving and Ideation in association with IIC and IEDC. The resource person was Mr. Abi Varghese, Assistant Professor, Dept. of Mechanical Engineering, Amaljyothi college of Engineering, Kanjirapalli. The workshop was conducted on 30th November 2022 at Digital Theatre, Mangalam College of Engineering, Ettumanoor. The session started at 2.00 pm and concluded at 04.00 pm. Total number of participants around 110, which includes students of 4<sup>th</sup>, 3<sup>rd</sup>, 2<sup>nd</sup>, 1<sup>st</sup> year students and faculties from various department has attended this workshop. Only registered participants were allowed to attend this workshop. Total number of students and faculties registered was 163.

This talk mainly focusing on how to put your mind in ideation and implementing new ideas. Ideation is the process of generating a broad set of ideas on a given topic, with no attempt to judge or evaluate them. Abi sir explained how an individual need to thing, how ideas are born in their mind, how to put these ideas into reality and making their prototypes. The resource person explained about the three steps that need to be considered in design thinking. He was an innovation ambassador of Amal Jyothi college of engineering, with many patents of his own. The resource person also explained about how he invented his patent and the basic steps to be followed.



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Figure 1: Problem Solving and ideation-workshop photos

**Outcome of the Event**

Students and faculties understood about Ideation and how to face a problem for finding its solution. Also discussed about the basic steps to be followed in while formulating a hypothesis and its solution. Many of the doubts about this area were cleared during this section. In this section also discussed about future of engineering in new inventions. This talk encouraged students and faculties to do research and publication.



*Divya Joshi*

Name & Signature of the In-Charge: PRINCIPAL  
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Ettumanoor

*[Signature]*  
HOD

**Dr. S. KARTHICKUMAR, Ph.D**  
Professor & HoD, EEE  
Mangalam College of Engineering  
Vettimukal P. O., Ettumanoor  
Kottayam, Kerala - 686 631

*[Signature]*  
IQAC

(Seal)  
Internal Quality Assurance Cell (IQAC)  
Mangalam College of Engineering  
Kottayam, India - 686 631

*[Signature]*  
Principal

Principal  
MANGALAM COLLEGE OF ENGINEERING  
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**Attendance Details of Report:**

**Problem Solving and Ideation Workshop  
 IIC Driven Activity**

S.No	Participants Name	Designation	Year / Branch / Section	Signature
1.	Preekshmi R	Student	S5 CE B	[Signature]
2.	Pavathy Rafeev	"	S5 CE B	[Signature]
3.	Mahima Manoj	"	S5 CE B	[Signature]
4.	Pavathy Parvathi	"	S5 CE B	[Signature]
5.	Jithin K	"	S5 CE B	[Signature]
6.	Sothi Joyel Benny	"	S5 CE B	[Signature]
7.	Sayakrishnan P.G	"	S5 CE B	[Signature]
8.	Safin Fahmy	"	S5 CE B	[Signature]
9.	R Adarsh	"	S5 CE B	[Signature]
10.	Arshin M Jaja	"	S5 CE B	[Signature]
11.	Keerthi Kanak	"	S5 CE B	[Signature]
12.	Jayar Ben Raj	"	S5 CE B	[Signature]
13.	Tijon Abraham	"	S5 CE B	[Signature]
14.	Sujith Ben Sajid	"	S5 CE B	[Signature]
15.	Shoban B Harpreet	"	S5 CE B	[Signature]
16.	Shoban Babu	"	S5 CE B	[Signature]
17.	Sooraj Shaji	"	S5 CE B	[Signature]
18.	Breeda	"	S5 CE B	[Signature]

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19.	Junaid.k	student	85 CSE B	<i>[Signature]</i>
20.	Kurian Thomas	"	55 CSE B	<i>[Signature]</i>
21.	Jitta Elsa Joby	"	55 CSE B	<i>[Signature]</i>
22.	Jaison T Biji	"	55 CSE B	<i>[Signature]</i>
23.	STEVEN S MABU	"	55 CSE B	<i>[Signature]</i>
24.	Monish Zachara	"	55 CSE B	<i>[Signature]</i>
25.	Stephen Jose	"	55 CSE B	<i>[Signature]</i>
26.	Martin Joy	"	55 CSE B	<i>[Signature]</i>
27.	Joel Manoj Mathar	"	55 CSE	<i>[Signature]</i>
28.	Vishnu Joy	"	55 CSE	<i>[Signature]</i>
29.	Rajan Sebastian	"	55 CSE	<i>[Signature]</i>
30.	STON BENNY	"	55 CSE	<i>[Signature]</i>
31.	Sneha hijeb	student	53 CSE	<i>[Signature]</i>
32.	Sneha V Biju	"	55 CSE	<i>[Signature]</i>
33.	Sneha shifu Thomas	"	55 CSE	<i>[Signature]</i>
34.	Surbhity ks	"	55 CSE	<i>[Signature]</i>
35.	Pooja Radee	"	55 CSE	<i>[Signature]</i>
36.	Mani Mathew Thomas	"	55 CSE	<i>[Signature]</i>
37.	Jelly	"	55 CSE	<i>[Signature]</i>
38.	Joel Sabu	"	55 CSE	<i>[Signature]</i>





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39.	<del>Asa</del> <del>Li</del> <del>Pritha</del> <del>s</del> <del>sheela</del> <del>student</del>	<del>student</del>	<del>EEE S7</del>	<del>Pritha</del>
40.	<del>Ka</del> <del>Penigna</del> <del>Jose</del>	<del>student</del>	<del>EEE S7</del>	<del>Penigna</del>
41.	<del>Aswathy</del> <del>krishna</del>	<del>student</del>	<del>EEE S7</del>	<del>Aswathy</del>
42.	<del>Anandhu</del> <del>safi</del>	<del>student</del>	<del>EEE S7</del>	<del>Anandhu</del>
43.	<del>Rizwan</del> "	<del>student</del>	<del>EEE S7</del>	<del>Rizwan</del>
44.	<del>Joyal</del> <del>James</del>	<del>student</del>	<del>EEE S7</del>	<del>Joyal James</del>
45.	<del>Nandu</del> <del>Parameswaran</del>	<del>student</del>	<del>EEE S7</del>	<del>Nandu</del>
46.	<del>Balu</del> <del>S</del> <del>Babu</del> "	<del>student</del>	<del>EEE S7</del>	<del>Babu</del>
47.	<del>Souraj</del> <del>Mohan</del> "	<del>student</del>	<del>EEE S7</del>	<del>Souraj</del>
48.	<del>Tom</del> <del>Thomas</del> "	<del>student</del>	<del>EEE S7</del>	<del>Tom</del>
49.	<del>Bireeshmon</del> <del>CB</del> "	<del>student</del>	<del>EEE S7</del>	<del>Bireeshmon</del>
50.	<del>Tiron</del> <del>Nr</del> "	<del>student</del>	<del>EEE S7</del>	<del>Tiron</del>
51.	<del>Jyothsree</del> <del>K</del> <del>R</del> "	<del>Faculty</del>	<del>ECE 2</del>	<del>Jyothsree</del>
52.	<del>Pruthi</del> <del>Sebastian</del> <del>S2</del>	<del>Faculty</del>	<del>EEE 2104</del>	<del>Pruthi</del>
53.	<del>M</del> <del>Anjana</del> <del>Ajimon</del>	<del>student</del>	<del>CE B-206</del>	<del>Anjana</del>
54.	<del>Jyothi</del> <del>P</del> <del>R</del> "	<del>"</del>	<del>SS CE B</del>	<del>Jyothi</del>
55.	<del>Sandya</del> <del>Vasquez</del> <del>S2</del>	<del>"</del>	<del>CSE 255 B3</del>	<del>Sandya</del>
56.	<del>Abhisomi</del> <del>MA</del> "	<del>"</del>	<del>CHE 1000101</del>	<del>Abhisomi</del>
57.	<del>Dakshini</del> <del>Nalini</del> <del>K</del> "	<del>"</del>	<del>CHE</del>	<del>Dakshini</del>
58.	<del>Alan</del> <del>Biju</del>	<del>"</del>	<del>CSE S3</del>	<del>Alan</del>

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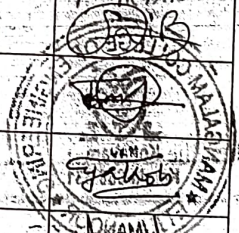
59	Poornasree J	Student	SS Chem	Poorn
60.	Varsha NS	Student	SS CE B	Varsha
61.	Pranav S	Student	Chem. SS	Pranav
62.	Akash B	Student		Akash
63.	Devika M	Student		Devika
64.	Preethi Sathesh	Student	SS ME A	Preethi
65.	Anujith S	Student		Anujith
66.	Sandeep Sodarandon	Student		Sandeep
67.	Anand Prabod	Student		Anand
68.	Ribin Varghese	Student		Ribin
69.	Denimon Davidson	Student		Denimon
70.	Pranav Pm	Student		Pranav
71.	Anandu S	Student		Anandu
72.	Arul R Haris	Student	SS ME A	Arul
73.	Kilian Jose	Student		Kilian
74.	Abhishek S	Student		Abhishek
75.	Asif M	Student	SS ME A	Asif
76.	Anantha Krishnan B	Student		Anantha
77.	Adarsh M	Student		Adarsh
78.	Jushin Joy	Student		Jushin





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79	Robin Abraham	Student	CS3B	[Signature]
80	Vysapak Omankutur	"	CS3B	[Signature]
81	Mathew Mathew	"	CS3B	[Signature]
82	Shreeshrmi SA	"	CS3B	[Signature]
83	Mudhan Medayil	"	CS3B	[Signature]
84	Sneehari J	"	CS3B	[Signature]
85	Math Thomas	"	CS5B	[Signature]
86	Megha Vaughese	"	CS5B	[Signature]
87	Asim Babu	"	EEE, S7	[Signature]
88	Achir sudhakaran	"	EEE, S7	[Signature]
89	Justin Joyal Joney	"	EEE, S7	[Signature]
90	Sahil	"	EEE, S7	[Signature]
91	TODIN JOSEPH	"	ME, S5	[Signature]
92	YAKOB BINOY	"	ME, S5	[Signature]
93	Manesh S	"	ME, S5	[Signature]
94	Divya Jose	Assistant Professor	EEE	[Signature]
95	Principal	Principal	Internal Quality Assurance Cell (IQAC)	[Signature]
96	Jolly George	Assistant Professor	EEE	[Signature]
97	Rahmath Beeby	Asst. Prof.	EEE	[Signature]
98	Shama Mani	Asst. Prof.	EEE	[Signature]



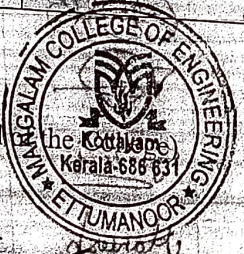
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99	Nayana Joseph	Student	SCSE B	Not
100	Karthika Anbi	"	SCSE B	Not
101	Abhinav	"	SCSE B	Not
102	Anand Suresh	"	S3 CSA2	Not
103	Alan Biju	"	S3 CSA	Not
104	Abin Biju Vaghese	"	S3 CSA	Not
105	Bijoy P. Oomen	"	S3 CSA	Not
106	Hirip Biju	"	S3 CSA	Not
107	Steve K. Sunny	"	S3 CSB	Not
108	Sidhaath Santhosh	"	S3 CSB	Not
109	Stebin Vaghese	"	S3 CSB	Not
110	Nikhil T	"	S3 CSB	Not



Divya Jose  
Name & Signature of the In-Charge

Dr. S. KARTHIKUMAR, Ph.D.  
(Professor & HoD, EEE)  
Mangalam College of Engineering  
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Kottayam, India - 686 631

Principal  
ANGALAM COLLEGE OF ENGINEERING  
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**Feedback of the Resource Person of Event: Problem Solving and Ideation Workshop  
IIC Driven Activity**

Resource Person Name: *Abi VARGHESE*

Designation: *ASSISTANT PROFESSOR*

Affiliation/Address: *AP, ME, Amal Jyothi College of Engineering*

Contact Number: *9746127877*

Email: *abi.varghese@amaljyothi.ac.in*

**Feedback of Attending the Event: Problem Solving and Ideation Workshop  
IIC Driven Activity**

Response: *Good*

*Thankyou for inviting me.*

**Approval Rating (Pls Tick)**

1	2	3	4	5	6	7	8 <input checked="" type="checkbox"/>	9	10
---	---	---	---	---	---	---	---------------------------------------	---	----

Name & Signature of the Resource Person

*Abi Varghese*

*Abi Varghese*

Name & Signature of the In-Charge

*Divya Jose*

Principal  
PRINCIPAL



HOD, EEE  
**Dr. S. KARAN KUMAR, Ph.D**  
Professor & HoD, EEE  
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Internal Quality Assurance Cell (IQAC) MANGALAM COLLEGE OF ENGINEERING  
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**Feedback of the Resource Person of Event: Problem Solving and Ideation Workshop  
IIC Driven Activity**

Participant Name: *Likhittha .s. shenoi*

Designation: *Student of 37 EEI*

Affiliation/Address: *KIZHAKKUPULLATTU (CH) ARPOOLARA PO KOTTAYAM*

Contact Number: *7902611708*

Email: *Likhitthashenoi@gmail.com*

**Feedback of Attending the Event: • Problem Solving and Ideation Workshop  
IIC Driven Activity**

Response: *It was excellent talk and Inspired us how to become an Entrepreneur & to look around us to find problems, Ideations, Implementations etc...*

*Good*

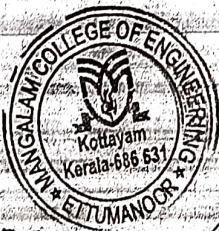
**Approval Rating (Pls Tick)**

1	2	3	4	5	6	7	8	9	<input checked="" type="checkbox"/>	10
---	---	---	---	---	---	---	---	---	-------------------------------------	----

**Name & Signature of the Participant**

*Likhittha .s. shenoi*

*Likhitthashenoi*



*Divya Jose*

**Name & Signature of the In-Charge**

*[Signature]*  
IOAC

*[Signature]*  
PRINCIPAL

**DR. S. S. KUMAR, Ph.D**  
Professor & HoD, EEE  
Mangalam College of Engineering  
Vettimukul P.O., Ettumanoor,  
Kottayam, Kerala - 686 631

**Internal Quality Assurance Cell (IQAC)**  
Mangalam College of Engineering  
Kottayam, India - 686 631

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Date:02/12/2022

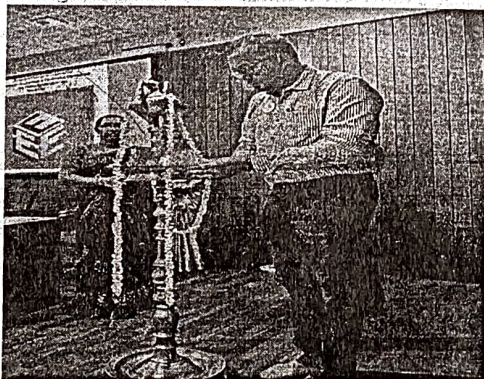
## Report: Electrical and Electronics Engineering Association Inauguration & Expert Talk on Smart Grid

### Description of the events

The Electrical and Electronics Engineering Department conducted Association Inauguration and expert talk on Smart Grid. The resource person was Er. C.P. George, Retd. Deputy Chief Engineer, KSEB Ltd. Association inauguration and an expert talk on smart grid conducted on 2<sup>nd</sup> December 2022 at Digital Theatre, Mangalam College of Engineering, Ettumanoor. The session started at 10.00 am and concluded at 11.30am. Total number of participants around 110, which includes students of 4<sup>th</sup>, 3<sup>rd</sup>, 2<sup>nd</sup>, 1<sup>st</sup> year students and faculties from electrical and electronics department. The electrical and electronics department association Elekra inaugurated by Er.C.P George and the meeting presided by Dr.Vinod P Vijayan, Principle, Mangalam college of Engineering. The inaugural ceremony dispersed at 10.30 am followed by expert talk on smart grid.

This talk mainly focusing on smart grid. A grid is an electricity network that delivers electricity from producers to consumers. However, a smart grid is an electrical grid which includes a variety of operation and energy measures includes advanced metering infrastructure, smart distribution boards and circuit breakers, renewable energy resources and sufficient utility grade fiber broadband to connect and monitor with wireless as a backup.

Governments, utility companies, power plant owners, electricity distribution companies and other smart grid industry stakeholders benefit from smart grid development. A smart grid connects every component of the electricity grid across various stages from power generation, transmission, storage and distribution to electricity consumption. In this section also explained about how smart grid works with help of diagrams and videos.



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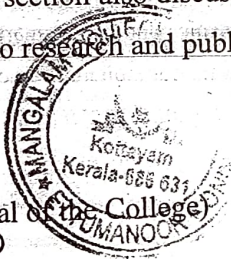
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Figure 1: Electrical and Electronics Association Inauguration and Smart talk on Smart Grid

**Outcome of the Event**

Students and faculties understood about smart grid. How it different from conventional grid. Much valuable information about smart grid discussed in this webinar. Also discussed about how smart grid works. Many of the doubts about this area were cleared during this section. In this section also discussed about future of smart grid. This talk enabled students and faculties to do research and publication in this area.



(Seal of the College)

*[Signature]*  
HoD/Convenor

*[Signature]*  
(Rahmath Beeby)  
Name & Signature of the In-Charge

*[Signature]*  
3/12/22  
IQAC

*[Signature]*  
3/12  
Principal

(Seal)

Dr.S. KARTHIKUMAR, Ph.D  
(Seal) Professor, IIT, IIT, IIT  
Mangalam College of Engineering  
Vettimukal P.O., Ettimanoor  
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Kottayam, India - 686 631

*[Signature]*

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Date 02./12./2012

**Attendance Details of Report 1: Electrical and Electronics Engineering Association**  
**Inauguration & Expert Talk on Smart Grid**

S:No	Participants Name	Designation	Year /Branch/Section
1	Abin Chacko	Student	EEE
2	Adithyan S	Student	EEE
3	Adwaith Haridas	Student	EEE
4	Advaith V A	Student	EEE
5	Adwaith Vinod	Student	EEE
6	Akshay Satheeshan	Student	EEE
7	Albin Joby	Student	EEE
8	Albin Thomas	Student	EEE
9	Alen Tomy	Student	EEE
10	Anjana S S	Student	EEE
11	Aswin Aji	Student	EEE
12	Aswin Prasad	Student	EEE
13	Bhavya Lekshmi	Student	EEE
14	Emil Mathew Biju	Student	EEE
15	Jeevan Suresh	Student	EEE

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16	Jerrin Jojo	Student	EEE
17	Joseph John	Student	EEE
18	Ligi George	Student	EEE
19	Meera Gopinath	Student	EEE
20	Mevin Kurian Thmas	Student	EEE
21	Midhun Venu	Student	EEE
22	Naveen Sunil	Student	EEE
23	Neeraja Nair	Student	EEE
24	Sanjay K G	Student	EEE
25	Sanjay Sajan	Student	EEE
26	Shimron Alakkal	Student	EEE
27	Siiva Prasad	Student	EEE
28	Sidharth Pradeep	Student	EEE
29	Sona Sabu	Student	EEE
30	Swaraj P S	Student	EEE
31	Arjun Anil	Student	EEE
32	Vishnu Biju	Student	EEE
33	Abhin Santh P	Student	EEE
34	Adone Shince	Student	EEE
35	Aiswarya A S	Student	EEE

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36	Amal Lalachan	Student	EEE
37	Anjana Santhosh	Student	EEE
38	Antony Joseph	Student	EEE
39	Athul C V	Student	EEE
40	Devnandh S Sreekumar	Student	EEE
41	Ganesh Kumar K S	Student	EEE
42	Gautham Krishna K S	Student	EEE
43	Geo Sunny	Student	EEE
44	Harikrishnan KR	Student	EEE
45	John Albin Lijan	Student	EEE
46	Joyal Jomon	Student	EEE
47	Kannan Babu	Student	EEE
48	Muhammed Irfan	Student	EEE
49	Nelson E S	Student	EEE
50	Rohith H	Student	EEE
51	Sachubinuj	Student	EEE
52	Sandra Satheesh	Student	EEE
53	Sanjay K S	Student	EEE
54	Akhil Raj	Student	EEE
55	Jacob Thomas	Student	EEE

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56	Abhinav P.B	Student	EEE
57	Thomas Sebastian	Student	EEE
58	Abhijith N Shenoy	Student	EEE
59	Abin Mathew	Student	EEE
60	Akash Varma	Student	EEE
61	Alishya Philip	Student	EEE
62	Alshin Ansari	Student	EEE
63	Anandeshwer E R	Student	EEE
64	Anandhu Praveen	Student	EEE
65	Arathi Sibi	Student	EEE
66	Ashik K R	Student	EEE
67	Aswin Kumar K S	Student	EEE
68	Gibu K Thomas	Student	EEE
69	Jefin P Jose	Student	EEE
70	Juby Joseph	Student	EEE
71	Justin Peter	Student	EEE
72	Linto Mathew P John	Student	EEE
73	Manaf Nizar	Student	EEE
74	Midhun S Babu	Student	EEE
75	Mohamad Sha K	Student	EEE





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76	Sanjay Nair	Student	EEE
77	Sebastain K Chacko	Student	EEE
78	Subin M John	Student	EEE
79	Vishnu A S	Student	EEE
80	Ahammed Arafat	Student	EEE
81	Akhil Sudhakaran	Student	EEE
82	Anandakrishna K. R.	Student	EEE
83	Anandhu Saji	Student	EEE
84	Arjun Babu	Student	EEE
85	Aswathy Krishna	Student	EEE
86	Balu S Babu	Student	EEE
87	Bineeshmon C B	Student	EEE
88	Devika Pramod	Student	EEE
89	Jestin Joyal Joney	Student	EEE
90	Joyal James	Student	EEE
91	Jubin Biju	Student	EEE
92	Likhitha S Shenoil	Student	EEE
93	Nakulan Kurmullam	Student	EEE
94	Nandu Parameswaran	Student	EEE
95	Peninna Jose	Student	EEE

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96	Rizwan Abdul Rahim	Student	EEE
97	Salim C Shajahan	Student	EEE
98	Tiron N. R.	Student	EEE
99	Tom Thomas	Student	EEE
100	Jelin K Jayan	Student	EEE
101	Robin Babu	Student	EEE
102	Sharath Krishnan	Student	EEE
103	Sooraj Mohan	Student	EEE
104	Dr. Karthikkumar	Professor	EEE
105	Ms.Jyothisree K R	Associate Professor	ECE
105	Dr. Leela S	Professor	EEE
106	Dr. Bincy K Jose	Associate Professor	EEE
107	Ms.Rahumath Beevi	Associate Professor	EEE
108	Ms.Preethi Sebastian	Associate Professor	EEE
109	Ms. Shoma Mani	Assistant Professor	EEE
110	Ms. Jeepa K J	Assistant Professor	EEE
111	Ms.Krupa Ann Kurien	Assistant Professor	EEE
112	Ms.Divya Jose	Assistant Professor	EEE
113	Ms. Aiswarya Chandran	Assistant Professor	EEE
114	Ms. Jolly George	Assistant Professor	EEE

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115	Ms. Lekshmi Nair	Assistant Professor	EEE
-----	------------------	---------------------	-----



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*(Signature)*  
Name & Signature of the In-Charge

*(Signature)*  
HOD/Convener

*(Signature)*  
3.12.22  
IQAC

*(Signature)*  
Principal

(Seal)  
Dr. S. KARTHIGAIAN, Ph.D  
Professor & HOD, EEE

(Seal)

(Seal)

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Kottayam, Kerala - 686 631

Internal Quality Assurance Cell (IQAC)  
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Kottayam, India - 686 631

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**Feedback of the Resource Person of Event: Expert talk on Smart Grid**

Resource Person Name: Er. C. P George

Designation: Retd Deputy Chief Engineer

Affiliation/Address: KSEB

Contact Number: 9447712907

Email: georgecp03@gmail.com

**Feedback of Attending the Event : Expert talk on Smart Grid.**

**Response:**

The Institution has very good learning environment for the learners to learn. The management, principal and the staff of the institution are committed for the cause of education. The students are motivated. Let me wish the Institution all the best.

**Approval Rating (Pls Tick)**

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

**Name & Signature of the Resource Person:**

*(Signature)* C.P. George

(Seal of the College)

*(Signature)*

HoD/Convenor

*(Signature)*  
Name & Signature of the In-Charge

*(Signature)*  
3/12/22  
IQAC

(Seal)

Internal Quality Assurance Cell (IQAC)  
Mangalam College of Engineering  
Kottayam, India - 686 631

*(Signature)*  
Principal

Dr. S. KANNAN, Ph.D.  
(Seal)  
Mangalam College of Engineering  
Kottayam, Kerala - 686 631

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Kottayam  
Principal





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**Feedback of the Participant of Event: Expert talk on Smart Grid**

Participant Name: Nandu Parameswaran

Designation: student

Affiliation/Address: EEE Department

Contact Number: 7306134918

Email: nandupnair736@gmail.com

**Feedback of Attending the Event: Expert talk on Smart Grid**

Response: The event was so good. I've got more knowledge on smart grid.

Approval Rating (Pls Tick)

1	2	3	4	5	6	7	8 ✓	9	10
---	---	---	---	---	---	---	-----	---	----

Name & Signature of the Participant

Nandu Parameswaran, Nandu

(Seal of the College)

*(Signature)*  
Name & Signature of the In-Charge

*(Signature)*  
HoD/Convenor

*(Signature)*  
3/12/22  
IQAC

*(Signature)*  
Principal

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**Feedback of the Participant of Event: Expert talk on Smart Grid**

Participant Name: NELSON E S  
Designation: STUDENT / S3 EGG  
Affiliation/Address: GEE Department  
Contact Number: 6238475306  
Email: nelsonsubin123@gmail.com

**Feedback of Attending the Event: Expert talk on Smart Grid**

Response:

The event was good and knowledgeable

Approval Rating (Pls Tick)

1	2	3	4	5	6	7	8 <input checked="" type="checkbox"/>	9	10
---	---	---	---	---	---	---	---------------------------------------	---	----

Name & Signature of the Participant

Nelson. E.S

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HoD/Convenor

(Seal)

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**Feedback of the Participant of Event: Expert talk on Smart Grid**

Participant Name: Sooraj Mohan

Designation: Student

Affiliation/Address: EEE department

Contact Number: 8921407504

Email: soorajm004@gmail.com

**Feedback of Attending the Event: Expert talk on Smart Grid**

Response:

Explanations were clear and programs are very good.

Approval Rating (Pls Tick)

1	2	3	4	5	6	7	8	<input checked="" type="checkbox"/> 9	10
---	---	---	---	---	---	---	---	---------------------------------------	----

Name & Signature of the Participant



(Seal of the College)

HoD/Convenor

*(Signature)*  
3/12/22

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**Feedback of the Participant of Event: Expert talk on Smart Grid**

Participant Name: Anjana SS

Designation: Student- /SIEEE.

Affiliation/Address: EEE Department

Contact Number: 8590638345

Email: anjanasathesaran661@gmail.com

**Feedback of Attending the Event: Expert talk on Smart Grid**

Response:

not an idea about smart grid

Approval Rating (Pls Tick)

1	2	3	4	5	6	7	8	9 <input checked="" type="checkbox"/>	10
---	---	---	---	---	---	---	---	---------------------------------------	----

Name & Signature of the Participant

Anjana SS ~~Anjana~~



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Name & Signature of the In-Charge

*(Signature)*

HoD/Convenor

*(Signature)*  
3/12/22  
IQAC

*(Signature)*  
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Cir 02./2022-23

Date 30/11/2022

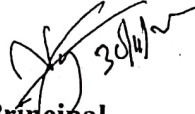
**Circular**

*(To be published on all departments/ hostel, library notice boards)*

The Electrical and Electronics Engineering Department is organizing Association Inauguration ceremony and an expert talk on smart grid on 02/012/2012, 10.00am at Digital Theatre, Mangalam college of Engineering. The resource person is Er. C.P. George, Retd. Deputy Chief Engineer, KSEB Ltd.



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Cir. EEE\_01/2022-23

Date: 20/05/2023

**Circular**

*(To be published on all departments/ hostel, library notice boards)*

The Electrical and Electronics Engineering Department is an expert talk on IPR and IP Management for Startup in association with IIC and IEDC on 24/05/2023, 06:30pm in Online Google platform. The resource person will be Dr. P Ponmurugan ME. PhD, Professor & Associate Dean – IPR, Meenakshi Academy of Higher Education & Research (Deemed to be University), Chennai. Those who are interested may please fill the registration form forwarded to you.



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**ORGANIZED BY : EEE DEPARTMENT**



**AN EXPERT TALK ON :**  
**IPR AND IP**  
**MANAGEMENT** **FOR STARTUP**



**And the Idea**  
**FOR STARTUP**

**DR. P. PONMURUGAN, B.E., PHD**

**PROFESSOR & ASSOCIATE DEAN - IPR**  
**INNOVATIVE & INSPIRING RESEARCHER**  
**YOUNG ENGINEER AWARD (NATIONAL LEVEL)**

**TIME : 6:30PM TO 7:30PM**



→ **JOIN NOW: <https://meet.google.com/rsq-srwj-dpc>**

**In Association with IEDC AND IIC**

**CO-ORDINATED BY :**

**DR. S KARTHIKUMAR**



**INSTITUTION OF ENGINEERS (INDIA)**  
**COUNCIL**  
**(Ministry of HRD, Govt. of India)**

**INNOVATION AND**





Date: 30/05/2023

## Report: An Expert Talk on IPR and IP Management for Startup

### Description of the events

The Electrical and Electronics Engineering Department conducted an expert talk on IPR and IP Management for Startup in association with IIC and IEDC. The resource person was Dr. P Ponmurugan ME. PhD, Professor & Associate Dean – IPR, Mecnakshi Academy of Higher Education & Research (Deemed to be University), Chennai. The workshop was conducted on 24th May 2023 in online Google meet platform. The session started at 06.30 pm and has concluded at 07.30 pm. Total number of participants attended were around 53, which includes students of 4<sup>th</sup>, 3<sup>rd</sup>, 2<sup>nd</sup>, 1<sup>st</sup> year students and faculties from various department has attended this workshop.

This talk mainly focusing on IPR and the steps to be followed while preparing a patent, copyright or trademark. IP protection puts legal checks on your competition, preventing others from infringing on and profiting from your property. The purpose of intellectual property laws is to protect your ideas, which is the driving force behind your startups and concepts that underpin your startup. The resource person stated the importance of filing an IP for ideas. He also described the various ways to move forward with students' ideas and resources available for them in constructing their prototype. The session lasted for an hour with QA.

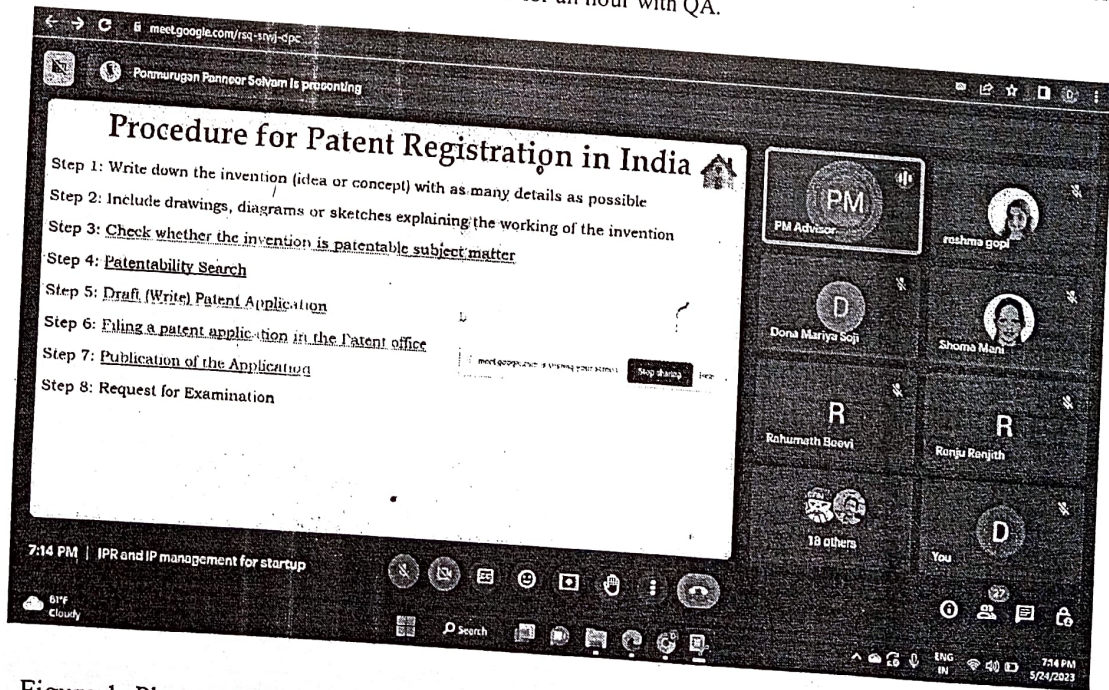


Figure 1: Photos of the session describing about procedures taken while preparing patent in India

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TAMIL NADU

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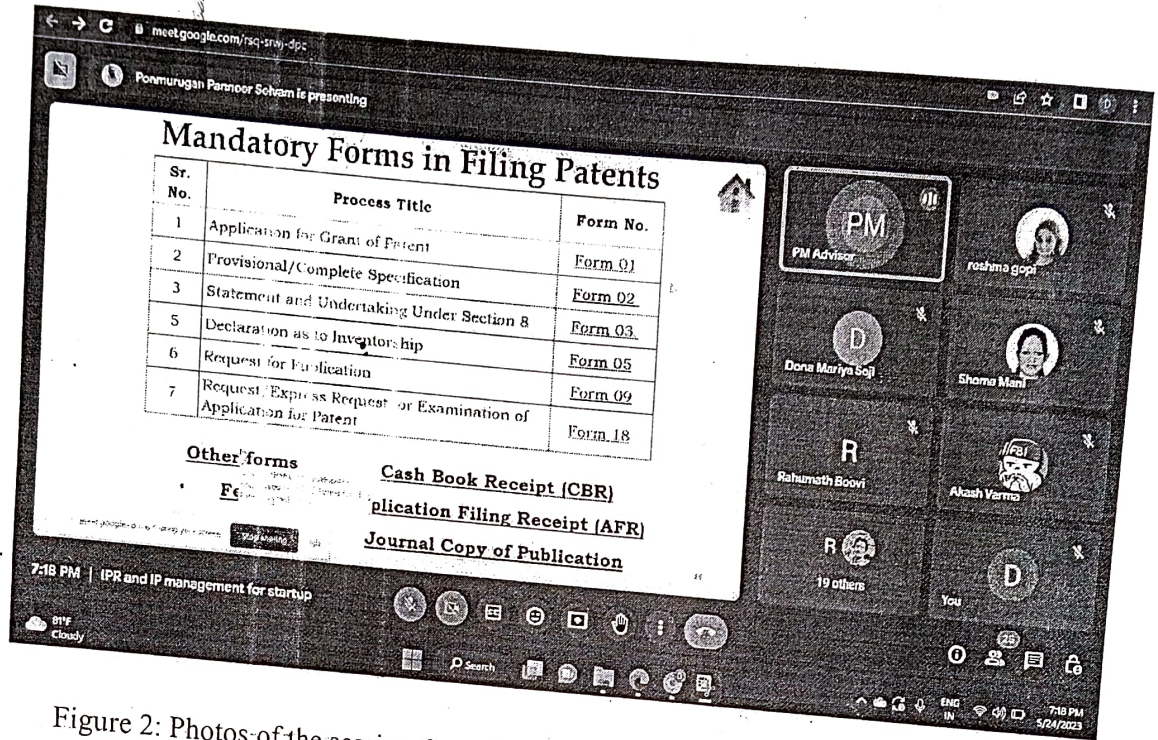


Figure 2: Photos of the session describing about the mandatory forms need to be filled

### Outcome of the Event

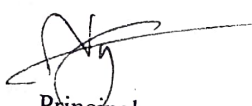
Students and faculties understood about Intellectual property right and intellectual property management for startups. Also discussed about the basic steps to be followed in while filing a patent and its importance. Many of the doubts about this area were cleared during this section. In this section also discussed about future of engineers in entrepreneurship. This talk encouraged students and faculties to develop their ideas into products with IPR rights.

  
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HOD/Convener 

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Date. 31/05/2023

**Attendance Details of Report: Expert Talk on "IPR and IP management for startups"**

S.No	Participants Name	Designation	Year /Branch/Section
1.	MINNUMOL S	STUDENT	II/PEPS/A
2.	ADITHDYA	STUDENT	II/PEPS/A
3.	AHAMMED ARAFAT	STUDENT	IV/EEE/A
4.	AKHIL SUDHAKARAN	STUDENT	IV/EEE/A
5.	ANANDAKRISHNA K. R.	STUDENT	IV/EEE/A
6.	ANANDHU SAJI	STUDENT	IV/EEE/A
7.	ASWATHY KRISHNA	STUDENT	IV/EEE/A
8.	BALU S BABU	STUDENT	IV/EEE/A
9.	DEVIKA PRAMOD	STUDENT	IV/EEE/A
10.	JESTIN JOYAL JONEY	STUDENT	IV/EEE/A
11.	JOYAL JAMES	STUDENT	IV/EEE/A
12.	LIKHITHA S SHENOI	STUDENT	IV/EEE/A
13.	NANDU PARAMESWARAN	STUDENT	IV/EEE/A
14.	SALIM C SHAJAHAN	STUDENT	IV/EEE/A
15.	JELIN K JAYAN	STUDENT	IV/EEE/A
16.	ROBIN BABU	STUDENT	IV/EEE/A
17.	SHARATH KRISHNAN	STUDENT	IV/EEE/A
18.	SOORAJ MOHAN	STUDENT	IV/EEE/A
19.	AKASH VARMA	STUDENT	III/EEE/A

*[Handwritten signature]*

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Lathur, Kollam





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		STUDENT	III/EEE/A
20.	SEBASTIAN K CHACKO	STUDENT	III/EEE/A
21.	ANANDESHWER ER	STUDENT	III/EEE/A
22.	ALSHIN ANSARI	STUDENT	III/EEE/A
23.	ASWIN KUMAR K S	STUDENT	III/EEE/A
24.	GIBU K THOMAS	STUDENT	III/EEE/A
25.	MOHAMAD SHA K	STUDENT	III/EEE/A
26.	ALISHYA PHILIP	STUDENT	III/EEE/A
27.	VISHNU AS	STUDENT	III/EEE/A
28.	JEFIN P JOSE	STUDENT	III/EEE/A
29.	MIDHUN S BABU	STUDENT	III/EEE/A
30.	ABHIJITH N SHENOY	STUDENT	III/EEE/A
31.	LINTO MATHEW P JOHN	STUDENT	III/EEE/A
32.	AISWARYA A S	STUDENT	II/EEE/A
33.	AMAL LALACHAN	STUDENT	II/EEE/A
34.	ANJANA SANTHOSH	STUDENT	II/EEE/A
35.	GAUTHAM KRISHNA K S	STUDENT	II/EEE/A
36.	GEO SUNNY	STUDENT	II/EEE/A
37.	HARIKRISHNAN K R	STUDENT	II/EEE/A
38.	ARATHI SIBI	STUDENT	III/EEE/A
39.	MANAF NIZAR	STUDENT	III/EEE/A
40.	SUBIN M JOHN	STUDENT	III/EEE/A
41.	ANANDHU PRAVEEN	STUDENT	III/EEE/A
42.	JERIN JOHNSON	STUDENT	II/ME/B

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43.	JUSTIN IOY	STUDENT	II/ME/B
44.	NIKHIL PRAMOD	STUDENT	II/ME/B
45.	REJATH RAJAN	STUDENT	II/ME/B
46.	RITHIN RAJ K	STUDENT	II/ME/B
47.	ROMIN ROY	STUDENT	II/ME/B
48.	ROYAL MANI	STUDENT	II/ME/B
49.	Ms. JOLLY GEORGE	Asst. Professor	EEE
50.	Ms. DIVYA JOSE	Asst. Professor	EEE
51.	Ms. NEENA G KRISHNA	Asst. Professor	CSE
52.	Ms. RAHUMATH BEEVY K A	Asst. Professor	EEE
53.	Dr. BINCY K JOSE	HOD	EEE

  
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HoD/Convenor

  
IQAC  
Internal Quality Assurance Cell (IQAC)  
Mangalam College of Engineering  
Kottayam, India - 686.631

  
Principal



# Feedback Form for Session on IPR

Feedback on IPR and IP Management for Startup conducted on 24/05/2023 at 6:30 PM in online google platform. Resource Person: Dr. P Ponnurugan, Professor and Dean of IPR.

The activity is conducted under IIC and IEDC and is organized by Electrical and Electronics engineering department of Mangalam College of Engineering

The respondent's email ([theshadowmonarchashton@gmail.com](mailto:theshadowmonarchashton@gmail.com)) was recorded on submission of this form.

Full Name \*

Akash Varma

Designation \*

Student

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Ettumanoor

College Name \*

Mangalam College Of Engineering

Please rate the speaker's knowledge about the topic: \*

- Excellent
- Good
- Fair
- Poor

Is the topic useful for field of work? \*

- Very good
- Good
- Acceptable
- Poor
- Very poor



Was the section Informative? \*

- Excellent
- Good
- Fair
- Poor

Were your expectations met? \*

- Yes
- No
- Maybe

Overall, how satisfied were you with the talk? \*

- Very satisfied
- Satisfied
- Neutral
- Dissatisfied

What do you think were the Weakness of this session? \*

None

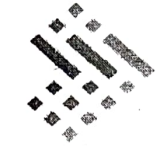


This form was created inside of Mangalam College of Engineering, Kerala - India.

Google Forms

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DEVELOPMENT CENTRE**



## Certificate of Participation

*This is to certify that Mr./Ms. jolly george, Asst. Professor, Mangalam College of Engineering, has attended an expert talk on "IPR and IP Management for Startup" on 24.05.2023 organized by EEE Department in association with IEDC and IIC of Mangalam College of Engineering.*

Co-ordinator



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the academic year 2022-2023 (5)

SI No	Dates (from-to) (DD-MM- YYYY)	Title of the professional development program organised for teaching staff	Title of the administrative training program organised for non-teaching staff	No. of participants
1	18/11/2022 to 22/11/2022	Innovations, IPR's, & Optimisation in Electronic Designs with Energy Systems		45
2	12/4/2023 TO 13/4/2023	ICCEVE (International Conference )		56

Co-ordinator 



  
**HOD: Abraham C G**  
Professor & Head  
Department of Electronics Engineering  
Mangalam College of Engineering

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# Mangalam College of Engineering

Ettumanoor-Kerala



## Department of Electronics and Communication Engineering

Inauguration of  
Faculty Development Programme  
(18th November - 24th November 2022)

on  
Innovation, IPR's and Optimisation in Electronic Designs  
with Energy Systems

Date: 18th November, 11:00AM

Chief Guest

Dr Kala S

Head, Department of ECE  
IIIT Kottayam



Chief Patron  
Dr. L. J. Varghese  
Chairman  
Mangalam College of Engineering

Patron  
Dr. Vinodh P. Vijayan  
Principal  
Mangalam College of Engineering

Convener  
Dr. Abraham C G, Professor & Head-ECE

Coordinator  
Dr. R. Radeep Krishna, Assoc. Prof/ECE  
Prof. Reena Thomas, Assoc. Prof/ECE

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Kottayam District, Kerala

IETE Student Forum Coordinators

Ms. Jisha Gigi - Chair of IETE Students Forum  
Ms. Abiya Dal - Secretary of IETE Students Forum  
Ms. Adithya K J - Treasurer of IETE Students Forum



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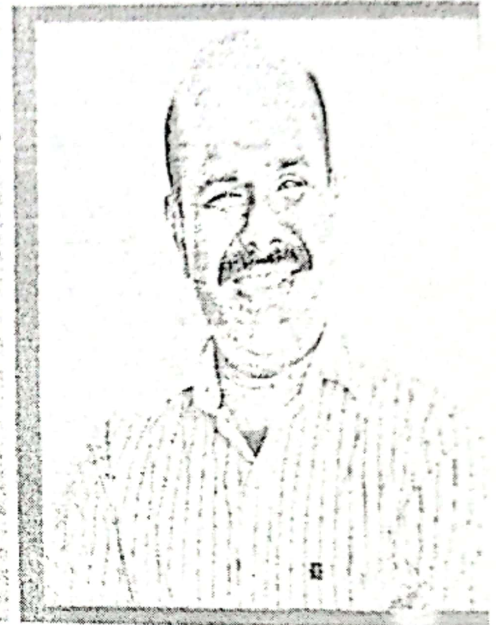
Department of Electronics and Communication Engineering

*Inauguration of IETE Students Forum, MLMCE*  
on  
*18th November 2022 ( 10:00AM)*

**Chief Guest**

**Dr. M.V. Rajesh**

IETE Fellow & Vice Chairman, Kochi Centre  
Chairman, IEEE Kochi Subsection  
Chairman, IEEE SPS Kerala Section  
Kerala State Student Coordinator,  
Computer Society of India (CSI)  
Faculty of Dept. of Electronics Engineering  
College of Engineering Chengannur



Chief Patron

**Dr. Biju Varghese**

Chairman

Mangalam College of Engineering

Patron

**Dr. Vinodh P Vijayan**

Principal

Mangalam College of Engineering

Convener

**Dr. Abraham C G, Professor & Head-ECE**

Coordinator

**Dr R Radeep Krishna, Assoc.Prof//ECE**

**Prof Reena Thomas, Assoc.Prof//ECE**

Venue

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Mangalam Hills  
Vettimukul P O, Ettumanoor  
Kottayam District. Kerala



IETE Student Forum Coordinators

**Ms Jisha Gigi - Chair of IETE Students Forum**

**Ms Abiya Dal- Secretary of IETE Students Forum**

**Ms Adithya K J - Treasurer of IETE Students Forum**

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## About Us

Mangalam College of Engineering (MLMCE) stands supreme in technical education with excellence and quality in education. Approved by the All-India Council for Technical Education (AICTE) and affiliated to the APJ Abdul Kalam University, Thiruvananthapuram and accredited by National Assessment and Accreditation Council (NAAC) and MLM is promoted by the Mangalam Educational Society, with a mission to bring out leaders for a technology-driven environment.

## Speakers

Dr. U. Shripathi Acharya,  
NITK

Dr Kala S,

HoD -Department of ECE,IIT Kottayam

Er Anjana Haridas,

Patent Examiner, Indian Patent Office, Chennai

Dr. Sowmya V,

Amrita Center for Computational Engineering and  
Networking (CEN), Coimbatore

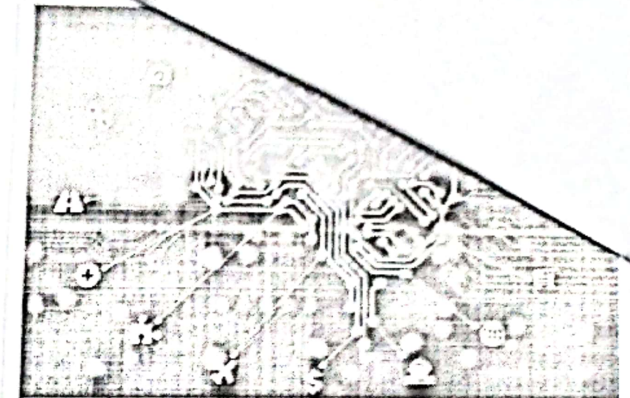
Dr P Aruna Jeyanthi,

Professor, KARE

Dr Sreedivya K M,

Assistant Professor,

Carmel College of Engineering & Technology



## Innovations, IPRs & Optimisation in Electronic Designs With Energy Systems

Chief Patron  
Er. Biju Varghese  
Chairman  
Mangalam College of Engineering

Patron  
Dr Vinodh P Vijayan  
Principal  
Mangalam College of Engineering

Convenor  
Dr. Abraham C G, HoD-ECE

Coordinator  
Dr Radeep Krishna.R, Assoc-Prof,ECE  
Prof. Reena Thomas, Assoc-Prof,ECE

### To Contact:

Dr Radeep Krishna.R  
Associate Professor  
Department of ECE  
Mangalam College of Engineering  
isf@mangalam.in  
Ph: 7306925359

To Register for FDP  
Please visit the Url  
[bit.ly/fdp-mlmce](http://bit.ly/fdp-mlmce)



## IETE Sponsored Faculty Development Programme 18-11-2022 to 24-11-2022

(HYBRID-MODE)

Organized By IETE Students Forum  
and Department of ECE,  
Mangalam College of Engineering

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## About FDP

Sessions

Dr Kalas

18/11/2022 (11AM) -Algorithm to Architecture Mapping [ offline]

Er Anjana Haridas

18/11/2022 (6:30 PM) -Innovations and

Patenting [ online]

Dr. U. Shripathi Acharya

19/11/2022 (10 AM)-Electronic Design leading to socially relevant products [online]

Dr Soumya V

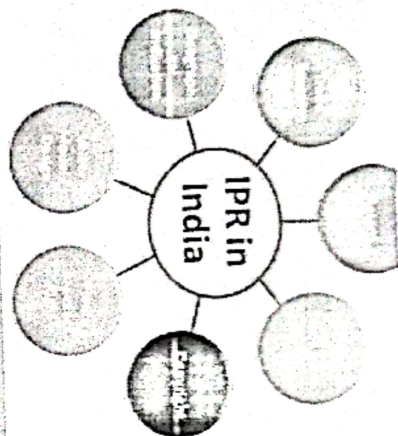
21/11/2022-22/11/2022 (7PM) Optimisation Techniques [online]

Dr Aruna Jayanthi

23/11/2022 (7 PM)-Energy Systems [online]

Dr Sreedivya K M

24/11/2022 (7 PM) - Optimisation in Energy Systems [online]



## What do you mean by IPR?

A patent is a type of intellectual property that gives its owner the legal right to exclude others from making, using, or selling an invention for a limited period of time in exchange for publishing an enabling disclosure of the invention.

## What do you mean by Innovation?

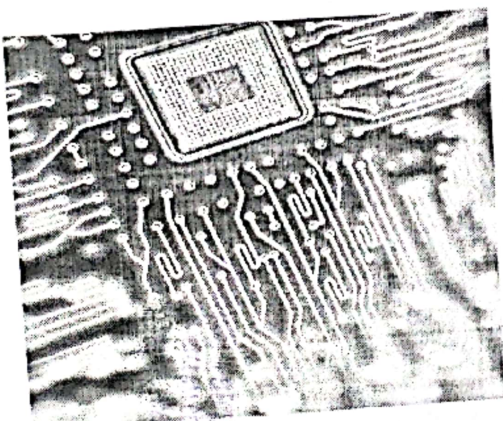
Innovation is the practical implementation of ideas that result in the introduction of new goods or services or improvement in offering goods or services. ISO TC 279 in the standard ISO 56000:2020 defines the standard as "a new or changed entity realizing or realizing the distributing value"

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## About Electronic and Energy Systems

Electronic circuit design involves the selection and interconnection of physical devices in a variety of topologies to meet performance specifications, environmental requirements, power and cost budgets, operating life requirements, and other design constraints in agreement with an overall schedule.

An energy system is a system primarily designed to supply energy-services to end-users. The intent behind energy systems is to minimize energy losses to a negligible level, as well as to ensure the efficient use of energy



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Date: 08-12-2022

## Report:FDP-FOE<sup>2</sup>

Description of the events (200-250 Words) ( Details Include Date , Resource Person, Participants Number, Location of Event, Other necessary information )

The Inauguration of the IETE Sponsored FDP- Innovation, IPR's and Optimisation in Electronic Design with Energy Systems (FOE<sup>2</sup>) held at the Digital Theatre , Mangalam College of Engineering on 18<sup>th</sup> November 2022 at 10:30 AM. The Chief Guest for the Function was Dr M. V. Rajesh, Fellow IETE and Vice Chairman, IETE Kochi Centre. Dr Minu A Pillai, Assistant Professor , Dept of ECE, IIT Kottayam was the Guest of Honor.

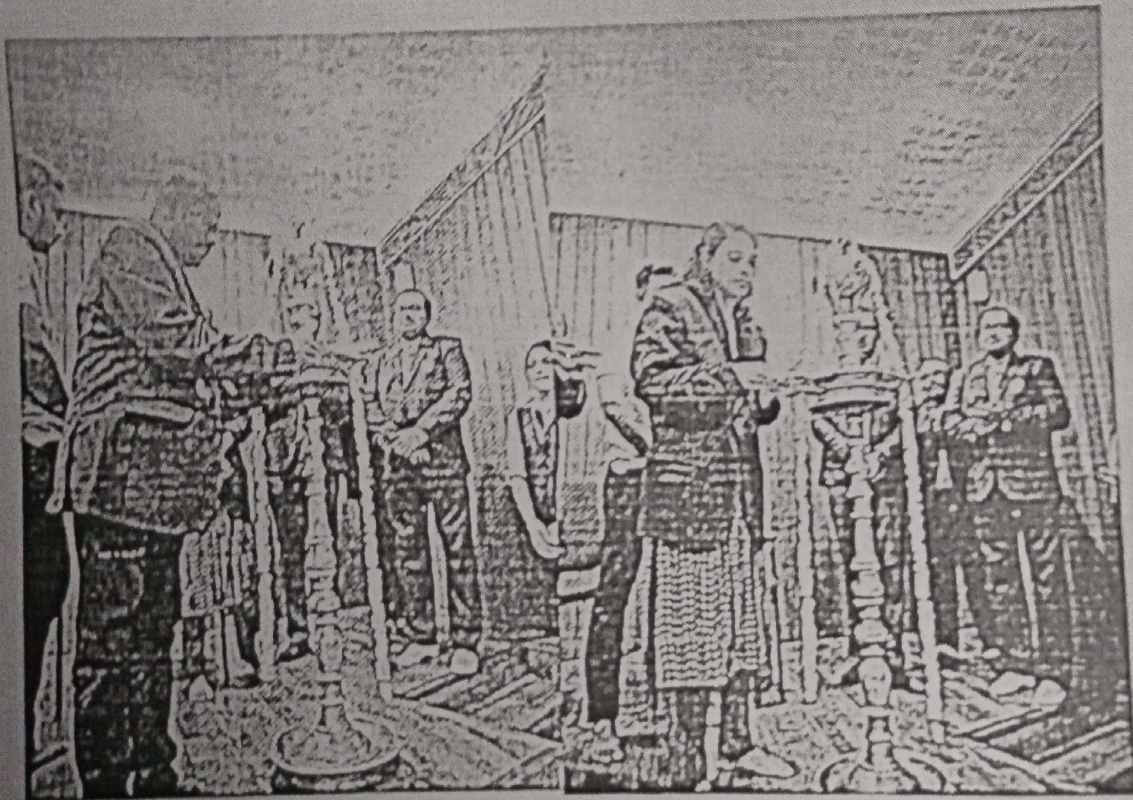


Fig 1, Chief Guest Dr M V Rajesh and Guest of Honor Dr Minu A Pillai Inaugurating the IETE Students Forum and IETE Sponsored FDP (Also ECEIAN Association) by lighting the lamp at the Digital Theatre, Mangalam College of Engineering on 18<sup>th</sup> November 2022 at 10:30 AM





Fig 2, Chief Guest Dr M V Rajesh and Guest of Honor Dr Minu A Pillai along with dignitaries on dais.



Fig 3, Dignitaries from ECE along with Guests



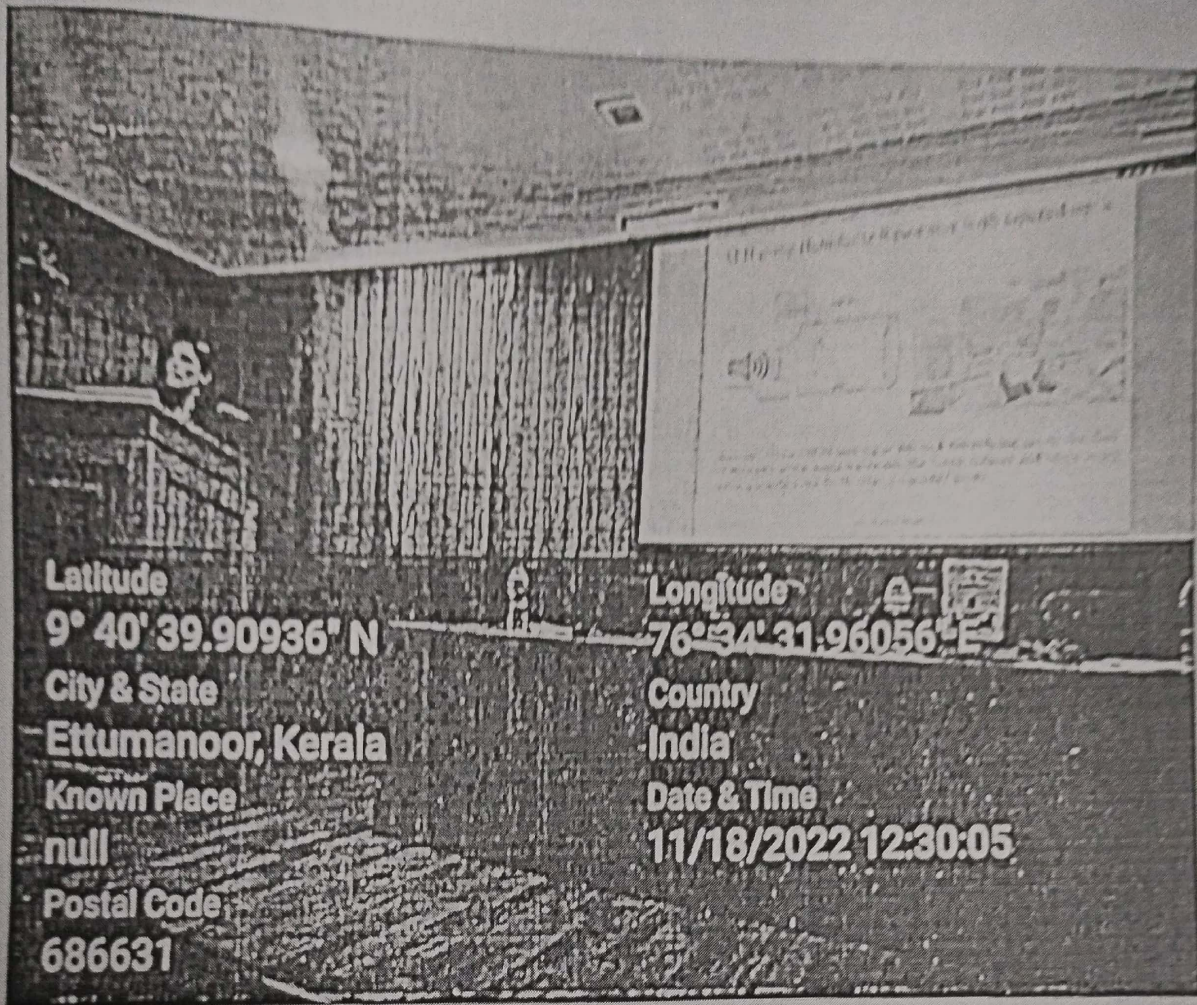


Fig 4, Dr Minu A Pillai, Asst Prof, Dept of ECE, IIIT Kottayam taking the first session of FDP-POE<sup>2</sup> at Digital Theatre, Mangalam College of Engineering.

The Session 1 of the FDP (Figure 4) is Acoustic Energy Harvesting at 18/11/2022 as Offline mode at Digital Theatre, MLMCE at 11:45 AM. Dr Minu A Pillai, Assistant Professor of Department of ECE, IIIT Kottayam is the resource person. The resource person covered extensively the fundamentals of Acoustic Energy Harvesting and demonstrated the results obtained in the current research done by her team at IIIT Kottayam.

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The Session 2 of the FDP-I<sup>2</sup>OE<sup>2</sup> held in offline mode. The link details is

\*\*\*\*\*

Session 2 [ Online] FDP (ECE & IETE) on I2OE2: Innovations and Patenting by Er Anjana Haridas

Hosted by Dr Radeep Krishna R

<https://mangalamcollegeofengineering.my.webex.com/mangalamcollegeofengineering.my/j.php?MTID=m36816187725298dafceb7e2297e1bd70>

Friday, Nov 18, 2022 6:25 pm | 2 hours | (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

Meeting number: 2640 152 4742

Password: JPx2tDmuw36 (57928368 from phones and video systems)

Agenda: FDP I2OE2

\*\*\*\*\*

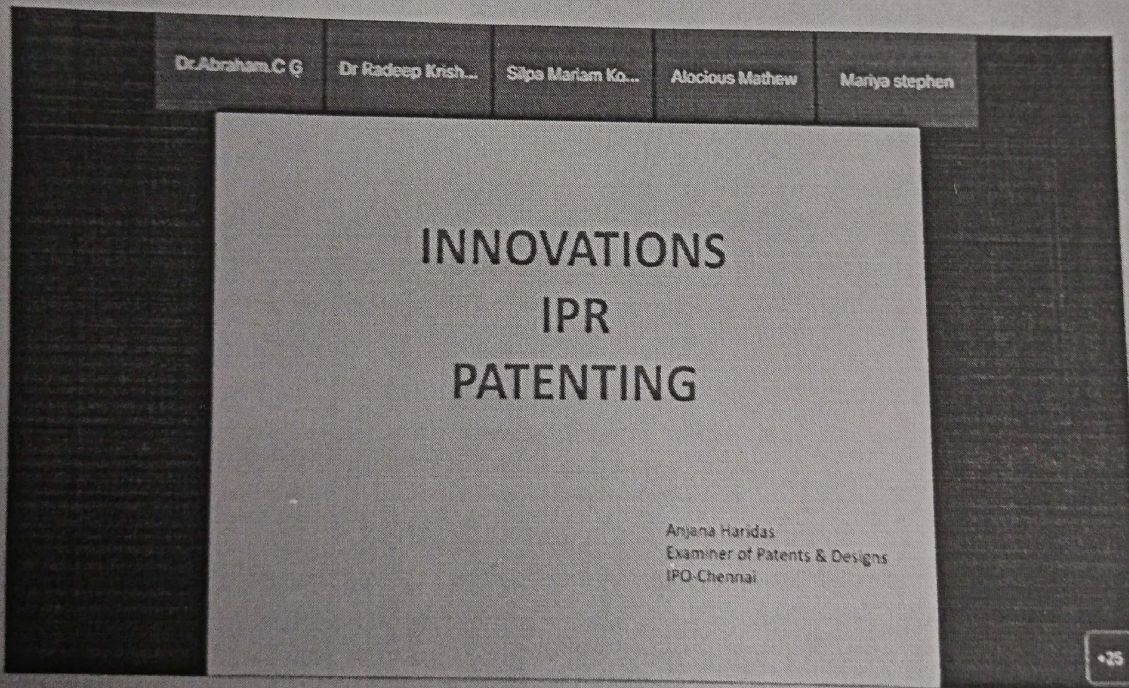


Fig 5, Er Anjana Haridas , Examiner of Patents & Designs, IPO-Chennai taking the online session

The Resource Person for the session 2 is Er Anjana Haridas, Examiner of Patents & Designs, IPO-Chennai covered detailed sessions on the Patenting process and the steps involved. She also gave a detailed representation on the examples of types of patents and categories.

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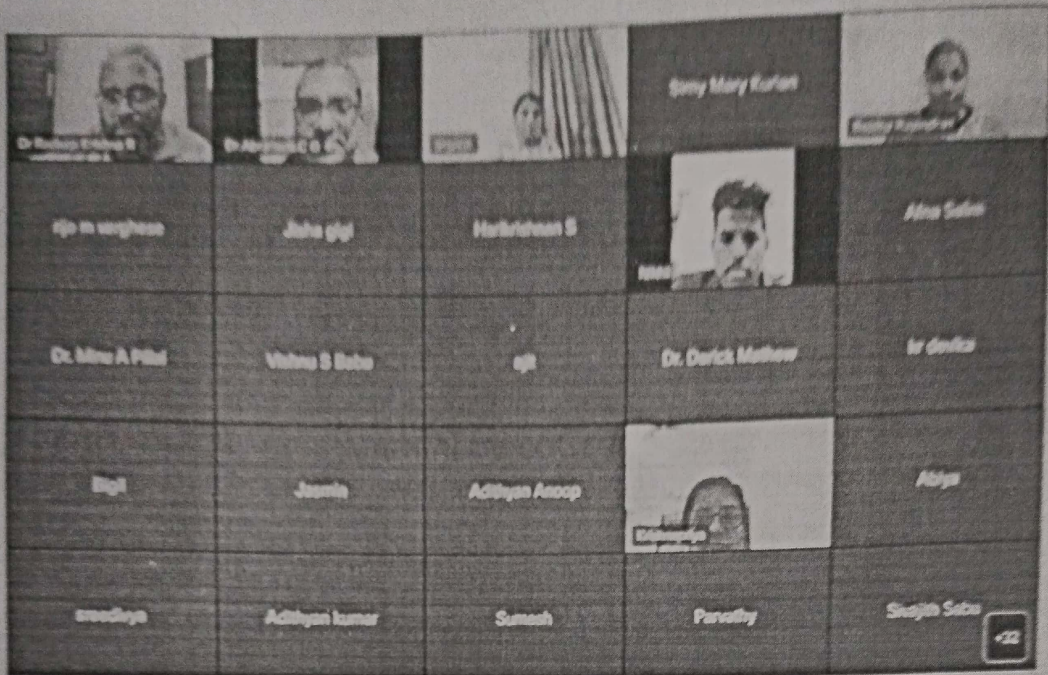


Fig 6, Participants of the Session 2

The Session 3 of the FDP-I<sup>2</sup>OE<sup>2</sup> held in offline mode. The link details is

\*\*\*\*\*

FDP Session 3- Dr U Sripati Acharya NITK, Electronic Design leading to Socially relevant products  
Hosted by Dr Radeep Krishna R  
<https://mangalamcollegeofengineering.my.webex.com/mangalamcollegeofengineering.my/j.php?MTID=m1acaf245235418afcf74baf8ffa716a1>  
Saturday, Nov 19, 2022 10:00 am | 1 hour 40 minutes | (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi  
Meeting number: 2640 595 6396  
Password: JTbHVxhB538 (58248942 from phones and video systems)  
Agenda: FDP Session 3- Dr U Sripati Acharya NITK, Electronic Design leading to Socially relevant product

\*\*\*\*\*

Dr U Sripati Acharya, Professor of NIT Suruthkal, Karnataka is the resource person and took the 3<sup>rd</sup> Session of the FDP-I<sup>2</sup>OE<sup>2</sup>. The resource person covered detailed examples on types on Inventions and how NITK and team worked on different projects for last thirty years. Many examples were covered.

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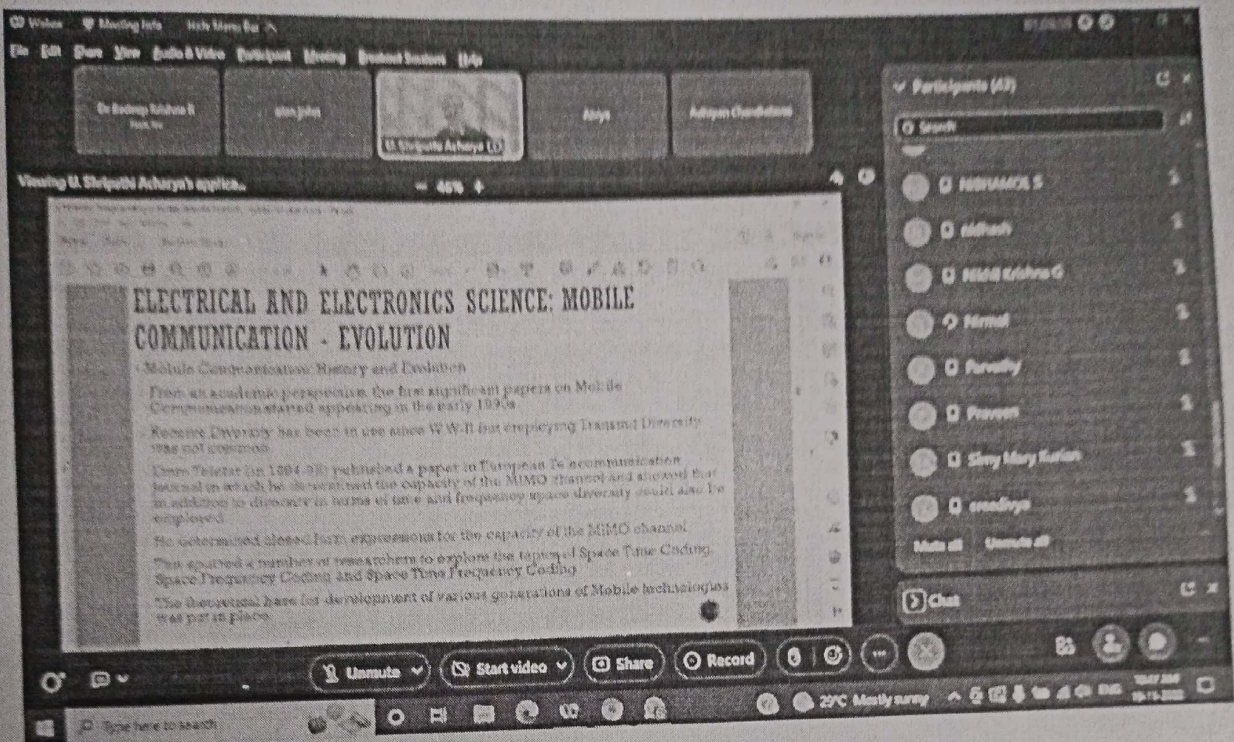


Fig 7, Dr Sripathi Acharya, NITK, taking the third session of the FDP-I<sup>2</sup>OE<sup>2</sup>

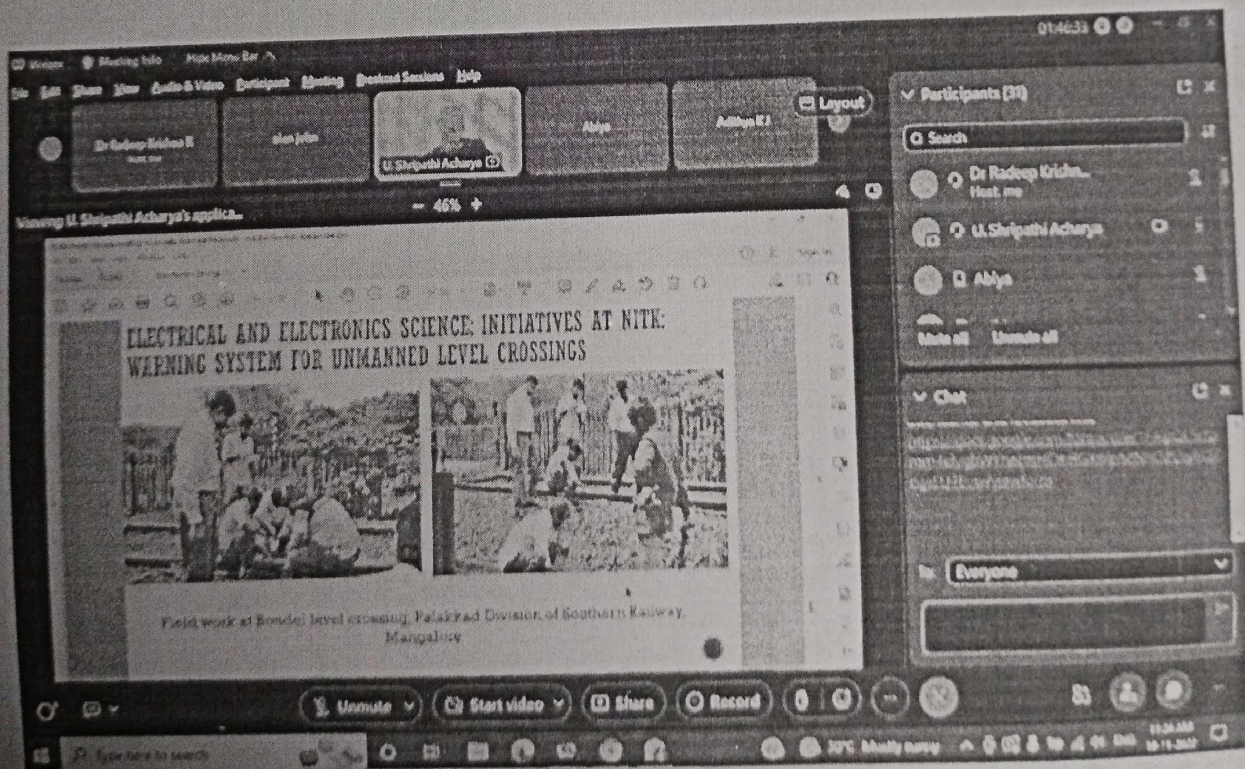


Fig 8, Dr Sripathi Acharya, NITK, covered the Projects done at NITK for Indian Railways

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Session 4 and 5 was taken by Dr Soumya V from Amrita University.

\*\*\*\*\*  
Session 4: | 1/11/2022 (7PM) Optimisation Techniques [online], by Dr Soumya V, Amrita University.

Hosted by Dr Radeep Krishna R

<https://mangalamcollegeofengineering.my.webex.com/mangalamcollegeofengineering.my/j.php?MTID=m216213da5256e3a3079bad442fed71bf>

Monday, Nov 21, 2022 7:00 pm | 1 hour 30 minutes | (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

Meeting number: 2643 474 4249

Password: Fqb23nm7cBm (37223667 from phones and video systems)

Agenda: 21/11/2022-Optimisation Techniques [online], By Dr Soumya V, Amrita University.

\*\*\*\*\*  
Session: 5 | 22/11/2022 (7PM) Optimisation Techniques [online], by Dr Soumya V, Amrita University.

Hosted by Dr Radeep Krishna R

<https://mangalamcollegeofengineering.my.webex.com/mangalamcollegeofengineering.my/j.php?MTID=m2ce73d71751fa57573d077b78bd52dbf>

Tuesday, Nov 22, 2022 7:00 pm | 1 hour 30 minutes | (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

Meeting number: 2640 392 5871

Password: KfKYGptd879 (53594783 from phones and video systems)

Agenda: Session 5 | 22/11/2022 (7PM) Optimisation Techniques [online], by Dr Soumya V, Amrita University.

\*\*\*\*\*

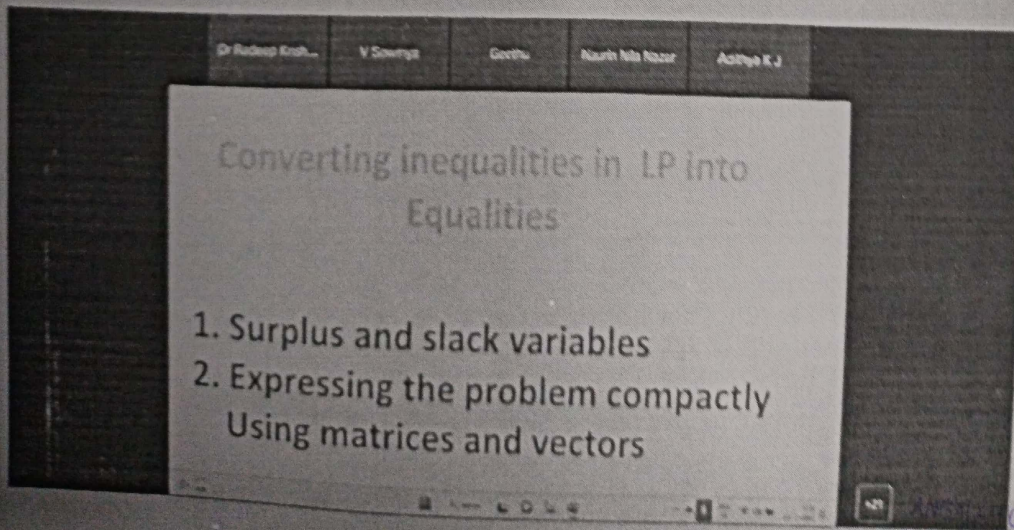


Fig 9, Dr Soumya V, Amrita University, discussing about optimisation techniques.

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Session 6 was taken by Dr Aruna Jeyanthi, Professor, KARE on the topic "Energy Systems" on 23/11/2022 from 7 P.M to 8:30 P.M.

The session covered elaborately on the energy systems required.

\*\*\*\*\*  
FDP-I2OE2: Session 6-23-11-2022, Energy Systems by Dr Aruna Jeyanthi, Professor, KARE.

Hosted by Dr Radeep Krishna R

<https://mangalamcollegeofengineering.my.webex.com/mangalamcollegeofengineering.my/j.php?MTID=m28d23b106646182fab50bfa67a88924>

Wednesday, Nov 23, 2022 7:00 pm | 1 hour 20 minutes | (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

Meeting number: 2642 186 2446

Password: iVpu7B92DqE (48787292 from phones and video systems)

Agenda: FDP-I2OE2; Session 6-23-11-2022, Energy Systems by Dr Aruna Jeyanthi, Professor, KARE.

\*\*\*\*\*

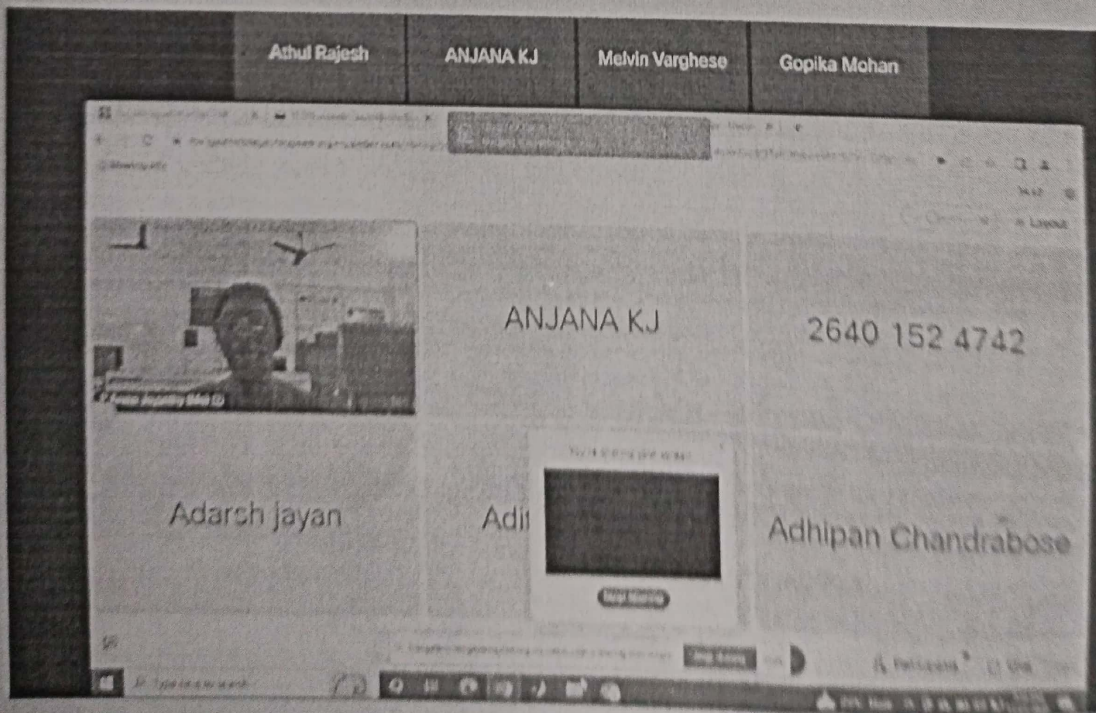


Fig 10 Dr Aruna Jeyanthi, Kalasalingam Academy of Research and Education, discussing about Energy Systems





















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**Feedback of the Participant of Event**

Event Name: Inauguration of ECEIAN - ECE Association/ Inauguration of IETE Students  
Forum/ Inauguration of FDP-POE?

Participant Name: Vishnu S. Babu

Designation: Student Ieee, S3

Affiliation/Address: Kovoor (H), Koolthraappally P.O Koonkuchal.

Contact Number: 7306082931

Email: gov06499@gmail.com

**Feedback of Attending the Event**

Response: It was a nice program and helped to learn knowledge.

**Approval Rating (Pls Tick)**

1	2	3	4	5	6	7	8	9	10
							<input checked="" type="checkbox"/>		

Name & Signature of the Participant: Vishnu S. Babu

(Seal of the College)



HOD, Convener C & G  
Professor & Head  
Department of Communication Engineering  
Mangalam College of Engineering  
Kottayam, India - 686 631



Name & Signature of the In-Charge  
Dr. Radeep Krishnaraj  
Associate Professor,  
Department of ECE  
Mangalam College of Engineering

Principal



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**Feedback of the Resource Person**

Event Name: Inauguration of ECEIAN - ECE Association/ Inauguration of IETE Students Forum/ Inauguration of FDP-IOE

Resource Person Name: Dr. M.V. Rajesh.

Designation: Assoc. Prof. CE Chengannur.

Affiliation/Address: Chair, IETE Kozhik, VC - IETE

Contact Number: 9447464687

Email: mvrajesh@ceconline.edu

**Feedback of Attending the Event**

Response: Very excellent organization and coordination.

**Approval Rating (Pls Tick)**

1	2	3	4	5	6	7	8	9	10
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Name & Signature of the Resource Person  
(Seal of the College)  
Kerala 556 531

Holder/Convenor

(Seal) Mangalam C.G.  
Engineering  
Kottayam, India - 686 631

IOAC

Internal Quality Assurance Cell (IOAC)  
Mangalam College of Engineering  
Kottayam, India - C

Name & Signature of Associate Professor  
Associate Professor,  
Department of ECE  
Mangalam College of Engineering

Principal

(Seal)

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Feedback of the Resource Person

Event Name: Inauguration of ECEIAN - ECE Association/ Inauguration of IETE Students  
Forum/ Inauguration of FDP-POE

Resource Person Name: Dr. Minu A Pillai

Designation: Assistant Professor

Affiliation/Address: Dept of ECE, Indian Institute of Information  
Technology, Kottayam

Contact Number: 90744 01968 / 9447441212

Email: minupillai@iiitkottayam.ac.in

Feedback of Attending the Event

Response: Highly professional event which has been  
organized neatly

Approval Rating (Pls Tick)

1	2	3	4	5	6	7	8	9	<input checked="" type="checkbox"/> 10
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Name & Signature of Resource Person

*Dr. Minu A Pillai*  
Dr. Minu A Pillai

(Seal of the College)



Name & Signature of Associate Professor  
*Dr. Radhika Krishna*  
Associate Professor  
Department of ECE  
Mangalam College of Engineering

HOD/Convenor

*[Signature]*  
Mangalam College of Engineering  
Department of Engineering  
Kottayam, India - 686 631

*[Signature]*  
IQAC

(Seal)  
Internal Quality Assurance Cell (IQAC)  
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Kottayam, India - 686 631

Principal

(Seal)

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Feedback of the Participant of Event

Event Name: Inauguration of ECEIAN - ECE Association/ Inauguration of IETE Students  
Forum/ Inauguration of FDP-1<sup>st</sup>OE<sup>2</sup>

Participant Name: RASEENA YOUSUF

Designation: ASST. PROFESSOR

Affiliation/Address: MANGALAM COLLEGE OF ENGINEERING.

Contact Number: 9746390182

Email: raseena.yousuf@gmail.com

Feedback of Attending the Event

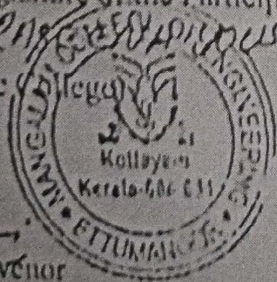
Response: Very informative.

Approval Rating (Pls Tick)

1	2	3	4	5	6	7	8	9	10 <input checked="" type="checkbox"/>
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Name & Signature of the Participant  
RASEENA YOUSUF

(Seal of the Participant)



HOD/Convener

Dr. Abdul C. D.  
(Seal)  
Head of Engineering

IOAC

Internal  
(Seal)  
Mangalam College of Engineering

Name & Signature of the In-Charge  
Associate Professor  
Department of ECE  
Mangalam College of Engineering.

Principal

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Feedback of the Participant of Event

Event Name: Inauguration of ECEIAN - ECE Association/ Inauguration of IETE Students  
Forum/ Inauguration of FDP-POE?

Participant Name: Aswin Santhosh Kumar

Designation: Student

Affiliation/Address: 53 ECE

Contact Number: 9961347446.

Email: aswinsanthoshcs5746@gmail.com

Feedback of Attending the Event

Response:

The program was conducted so nicely. There was so many informative topics that we don't know about in the class. The program committee did a nice job in the coordination of the program.

Approval Rating (Pls Tick)

1	2	3	4	5	6	7	8	9 <input checked="" type="checkbox"/>	10
---	---	---	---	---	---	---	---	---------------------------------------	----

Name & Signature of the Participant *Aswin*  
Aswin Santhosh Kumar

(Seal of the College)



Name & Signature of the In-Charge *[Signature]*  
Dr. Radeep Krishna R  
Associate Professor,  
Department of ECE  
Mangalam College of Engineering

Principal

(Seal)

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HOD/Convenor  
Dr. Abraham C G  
Professor & Head  
Department of ECE  
Mangalam College of Engineering  
Kottayam, India

Internal Quality Assurance Cell (IQAC)  
Mangalam College of Engineering  
Kottayam, India - 686 011





# International Conference on Communication, Embedded-VLSI Systems for Electric Vehicle

April 12-13, 2023 – Hybrid Mode

Dept of Electronics and Communication Engineering



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Dr. Jude Hemanth D, Karunya University

**Conference Chairs**

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Dr. Radeep Krishna, MLMCE

**Conference Secretaries**

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Mr. Reneesh C Zacharia, MLMCE

**Technical Program Chairs**

Dr. P. Victor Paul, IIIT, Kottayam

Ms. Neethan Elizabeth Abraham, MLMCE

**Publication Chair**

Dr. G R Sinha, IIIT Bangalore

Ms. Simi P Thomas, MLMCE

**Sponsorship Chairs**

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Mr. Ajit Joseph, MLMCE

**Publicity and Public Relation Chair**

Dr. Rani Chinnappa Naidu, VIT, Vellore

Mr. Sumesh Chandran, MLMCE

**Finance Chairs**

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Ms. Karthika Rajan, MLMCE

**Registration Chair**

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Ms. Devika Sarath, MLMCE

**Advisory Committee**

Dr. Mohanan, IIIT Kottayam, Kerala

Dr. Mala S, IIIT Kottayam, Kerala

Dr. Bindu G R, CET, Kerala

Dr. Lekshmi A, CET, Kerala

Dr. Sadiq, A, TKMCE, Kollam, Kerala

Dr. Suresh P.R, NSSCE, Palakkad

Dr. Binu G S, NSSCE, Palakkad

Dr. Chinmoy Saha, IIST, Trivandrum

Dr. Sunny Joseph Kalayathankal, JEC

Dr. Joseph Rodrigues, Christ University.

Dr. Madheswaran, MEC, TamilNadu.

Dr. Samar K Saha, Milpitas, CA, USA.

Dr. Rabie Ramadan, University of Hail, Saudi Arabia.

Dr. Irfan Khan, Texas A&M University.

Dr. Subarna Shukya, Tribhuvan University, Nepal.

Dr. Ching Yern Chee, University of Malaya, MY

Dr. Fausto Pedro, Castilla-La Mancha University, ESP

Dr. Kishor Trivedi, Duke University

Dr. Daniel Thalman, MIRALab Sarl in Switzerland.

Dr. Muhamed Farrag, Glasgow Caledonian University

Dr. Atif Iqbal, Qatar University.

Dr. J Paulo Davin, University of Aveiro, Portugal.

**About ICCEVE'23:** The objective of the conference is to bring together academicians, researchers, professionals, executives and practicing engineers, from various industries, research institutes and educational bodies to share and exchange ideas and information on the theme of the conference.

**Scope of Conference:** Communication System, Embedded system, Signal Processing, VLSI, Power Electronics & Drives, Power Conditioning, Renewable Energy, Control Systems, Industrial Instrumentation, Computational Intelligence and Electric Vehicle (but are not limited to).

Website link: <https://www.mangalam.edu.in/icceve23/>



**Important Dates:**

Paper submission deadline: February 1, 2023  
 Conveying acceptance: February 20, 2023  
 Deadline for camera ready paper: February 25, 2023  
 Registration: February 26, 2023  
 Conference on: April 12, 13, 2023

**Paper submission:** Prospective authors are invited to submit original research papers in electronic format through Microsoft CMT. Unregistered authors should first create an account on Microsoft CMT to log on. All submissions must be in English only. Papers should comply with the IET format and specifications. Authors are requested to submit full paper (Maximum 6 pages) using the IET conference template. The IET paper template can be downloaded [here](#). All papers that conform to submission guidelines will be peer reviewed and evaluated based on originality, technical and/or research content/depth, correctness, relevance to conference, contributions, and readability. Acceptance of papers will be communicated to authors by email. Accepted papers after the review and presentation in the conference will be included in the proceedings of IET Digital Library. The presentation of the accepted paper during the conference is mandatory.

Submission link: <https://cmt3.research.microsoft.com/ICCEVE2023/>



**Registration Fee:**

Authors/Participants	Indian Delegates in INR	Foreign Delegates in USD
Students	2000	100
Academia	3000	150
Industry/R&D	4000	200
Attendee Only	500	50

**Venue:** Mangalam College of Engineering, Ettumanoor, Kottayam, Kerala, India. - <https://maps.app.goo.gl/C1X9KnTNIQzJirQ9>

**Contact Information:** [icceve@mangalam.in](mailto:icceve@mangalam.in), [radeep.krishna@mangalam.in](mailto:radeep.krishna@mangalam.in)

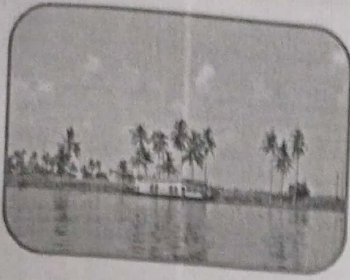


**Papers accepted after the review and presentation at the conference will be included in the proceedings and published on the IET Digital Library and submitted for publication on the IEEE Xplore platform. The proceedings will be indexed in Irspec and submitted for indexing in EI Compendex and Scopus**

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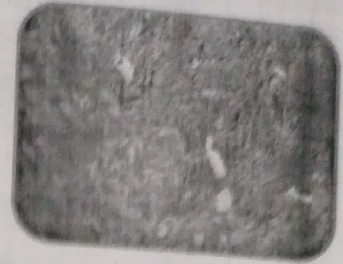
# NEARBY TOURIST ATTRACTION



Vembanad Lake  
(25 km)



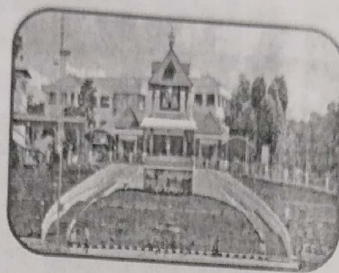
Aruvikuzhy Waterfalls  
(18 km)



Kumarakom Bird Sanctuary  
(28 km)



Ettumanur Shri Mahadevar Temple  
(3 km)



St. Alphonsa Shrine Church  
& Pilgrim Centre (20 km)



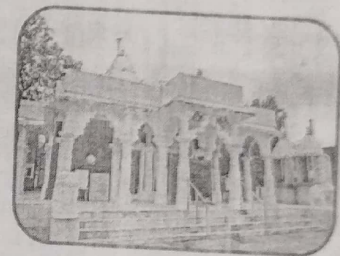
Kumarakom Craft Museum  
(27 km)



Saint Chavara Pilgrim Centre  
(9 km)



Thirunakkara Mahadeva Temple  
(14 km)



Swetamber Jain Temple  
(50 km)



Alappuzha Beach  
(50 km)



International Coir Museum  
(42 km)

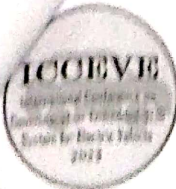


Thazhathangady Juma Masjid  
(17 km)

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# International Conference on Communication, Embedded-VLSI Systems for Electric Vehicle

April 12-13, 2023 – Hybrid Mode

Dept of Electronics and Communication Engineering



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**About ICCEVE/23:** The objective of the conference is to bring together academicians, researchers, professionals, executives and practicing engineers, from various industries, research institutes and educational bodies to share and exchange ideas and information on the theme of the conference.

**Scope of Conference:** Communication System, Embedded system, Signal Processing, VLSI, Power Electronics & Drives, Power Conditioning, Renewable Energy, Control Systems, Industrial Instrumentation, Computational Intelligence and Electric Vehicle (but are not limited to).

Website link: <https://www.mangalam.edu.in/icceve23/>



### Important Dates:

Paper submission deadline: February 1, 2023

Conveying acceptance: February 20, 2023

Deadline for camera ready paper: February 25, 2023

Registration: February 26, 2023

Conference on: April 12, 13, 2023

**Paper submission:** Prospective authors are invited to submit original research papers in electronic format through Microsoft CMT. Unregistered authors should first create an account on Microsoft CMT to log on. All submissions must be in English only. Papers should comply with the IET format and specifications. Authors are requested to submit full paper (Maximum 6 pages) using the IET conference template. The IET paper template can be downloaded [here](#). All papers that conform to submission guidelines will be peer reviewed and evaluated based on originality, technical and/or research content/depth, correctness, relevance to conference, contributions, and readability. Acceptance of papers will be communicated to authors by email. Accepted papers after the review and presentation in the conference will be included in the proceedings of IET Digital Library. The presentation of the accepted paper during the conference is mandatory.

Submission link: <https://cmt3.research.microsoft.com/ICCEVE2023/>



### Registration Fee:

Authors/Participants	Indian Delegates in INR	Foreign Delegates in USD
Students	2000	100
Academia	3000	150
Industry/R&D	4000	200
Attendee Only	500	50

Venue: Mangalam College of Engineering, Ettumanoor, Kottayam,

Kerala, India.- <https://maps.app.goo.gl/C1X9KnTN1QztJirQ9>

Contact Information: [icceve@mangalam.in](mailto:icceve@mangalam.in), [radeep.krishna@mangalam.in](mailto:radeep.krishna@mangalam.in)



Papers accepted after the review and presentation at the conference will be included in the proceedings and published on the IET Digital Library and submitted for publication on the IEEE Xplore platform. The proceedings will be indexed in Inspec and submitted for indexing in EI Compendex and Scopus.

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# MANGALAM COLLEGE OF ENGINEERING

## Department of Electronics and Communication Engineering

### International Conference on

### Communication, Embedded - VLSI Systems for Electric Vehicle (ICCEVE'23)

12<sup>th</sup> – 13<sup>th</sup> April 2023

To be held in Virtual mode

Day 1: 12th April 2023, Wednesday

Time	Session	Session Details	
10:00-10:45 am	Opening	Welcome address & Inaugural ceremony	
10:45-11:00 pm		Tea Break	
11-11:45 am	Keynote Speech	Dr. D. Devaraj, (Senior Professor, SEET, Dept of EEE, Kalasalingam Academy of Research and Education)	
		Session Chair: Dr. Sreedivya K.M	
	Time	Presenting Author	
		Paper ID	
		Paper Title	
11:50 - 1:20 pm	11:50-12:05 pm	05	ANALYSIS OF COVID 19 SPREAD IN INDIA
	12:05-12:20 pm	14	SYSTEM ON CHIP DESIGN CHALLENGES AND ITS SOLUTIONS
	12:20-12:35 pm	12	AN ENHANCED WOA AND MI BASED FEATURE SELECTION

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	12:35-12:50 pm	03	Dr. Nidhi Gaur	DESIGN OF A 17x17 SIGNED VEDIC MULTIPLIER FOR FFT
	12:50-1:05 pm	15	Shine P. James	RETINAL IMAGE ENHANCEMENT BASED ON ILLUMINATION COMPONENT AND GAMMA CORRECTION
	1:05-1:20 pm	10	Stalin	SUPERIOR INTERPOLATION FOR DIGITAL SYSTEMS
<b>Lunch Break</b>				
1:30-2:15 pm				
	2:15-2:30 pm	07	Dr.Silpa	POLY SACCCHARIDE ASSISTED EXFOLIATION OF GRAPHITE TOWARDS HIGHLY CONDUCTIVE GRAPHENE NANO INK FOR BIOCOMPATIBLE SENSORS
2:15 - 3:00 pm	2:30-2:45 pm	16	Dr. P. Aruna Jeyanthi	IOT BASED SOLAR PANEL CONDITION MONITORING SYSTEM
	2:45-3:00 pm	17	Dr. Bincy K. Jose	A NEW MPPT TECHNIQUE FOR PV SYSTEMS UNDER PARTIALLY SHADED CONDITIONS
	3:00 pm			End of Day 1

Day 2: 13th April 2023, Thursday

Time		Session	Session Details	
10:30 - 11:30 am		Keynote Speech	Dr. M. Madheshwaran (Former chairman of IEEE society India (solid state devices), Principal of Muthayammal Engineering College, Salem)	
11:30-11:45 am			Tea Break	
			Session Chair: Dr. S. Leela	
Time	Paper ID	Presenting Author	Paper Title	
11:45-12:00 pm	19	Jibi K Kurian	STUDY ON RECENT APPROACHES OF POWER OPTIMIZATION TECHNIQUES IN VLSI DESIGN	



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12:00-12:15 pm	18	Aparna Jose	8-BIT ARITHMETIC LOGIC UNIT (ALU) USING FULL SWING RESTORED M-GDI TECHNIQUE
12:15-12:30 pm	22	Dr. R. Radeep Krishna	MODELLING OF THERMAL EFFECT IN THROUGH-SILICON VIA FOR 3D IC
12:30-12:45 pm	09	A. Anbu Rani	MRI BRAIN TUMOR DETECTION USING GLCM ALGORITHM
12:45-1:00 pm	02	Eva Kaushik	ELECTRONIC HEALTHCARE RECORD (EHR) FUNCTIONING
<b>Lunch Break</b>			
1:00-1:45 pm			
1:45 - 3:45 pm	11	V.Sarath Brahma	MUTUAL COUPLING REDUCTION IN MIMO ANTENNA FOR UWB APPLICATIONS USING H SHAPED STUBS
	21	Benit J	IOT BASED LOW COST VENTILATOR
	23	Jyothisree K. R	RAILWAY TRACK CRACK DETECTION USING ROBOT
	24	Ajay Manikuttan	FIRE FIGHTING ROBOT USING ARDUINO
	25	Fathima Fauju M S	ARDUINO BASED SAFETY HELMET FOR ACCIDENT PREVENTION SYSTEM
3:45-4:00 pm			<b>Vote of Thanks &amp; End of ICCEVE'23</b>



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International Conference on International Conference on Communication, Embedded - VLSI Systems for Electric Vehicle

Date: 12th & 13th April 2023

Number of papers: 20

Submission ID	Paper Title	Submitting Author's Name	Submitting Author's email
icceve003	Design of a 17x17 Signed Vedic Multiplier for FFT	Dr. Nidhi Gaur	ngaur@amity.edu
icceve005	Study and Analysis of COVID 19 spread in India using SIRD Model	Dr. Nidhi Gaur	ngaur@amity.edu
icceve007	Poly Saccharide Assisted Exfoliation of Graphite towards Highly Conductive Graphene Nano Ink for Biocompatible Sensors	Dr. Silpa P A	silpapulickal@gmail.com
icceve010	SUPERIOR INTERPOLATION FOR DIGITAL SYSTEMS	Stalin	starstalin@gmail.com
icceve014	System On Chip Design, Challenges and It's Solutions	Ranveer Chavare	ranveer.chavare21@vit.edu
icceve015	Retinal Image Enhancement based on illumination component and gamma correction	Shine P James	shinepjames02@gmail.com
icceve016	IOT BASED SOLAR PANEL CONDITION MONITORING SYSTEM	M.SANTHOSH	p.arunajeyanthi@klu.ac.in
icceve017	A NEW MPPT TECHNIQUE FOR PV SYSTEMS UNDER PARTIALLY SHADED CONDITIONS	Dr. Bincy K. Jose	bincykjose84@gmail.com
icceve018	8-bit Arithmetic Logic Unit (ALU) using Full Swing Restored M-GDI Technique	Aparna Jose	aparna.jose@mangalam.in
icceve019	STUDY ON RECENT APPROACHES OF POWER OPTIMIZATION TECHNIQUES IN VLSI DESIGN	Jibi K Kurian	jibi.kurian@mangalam.in
icceve020	Home Automation using BCI	Ajeesh S	ajeesh.s@mangalam.in
icceve021	IOT BASED LOW COST VENTILATOR	Dr. Abraham C G	abraham.cg@mangalam.in
icceve022	Modelling of Thermal effect in Through-silicon via for 3D IC	Dr. R Radeep Krishna	radeep.krishna@mangalam.in
icceve023	Railway Track Crack Detection Using Robot	Jyothisree K R	jyothisree.kr@mangalam.in
icceve024	Firefighting Robot using Arduino	Neethan Elizabeth Abraham	neethan.abraham@mangalam.in
icceve025	ARDUINO BASED SAFETY HELMET FOR ACCIDENT PREVENTION SYSTEM	Mariya Stephen	mariya.stephen@gmail.com
icceve026	Spyonian 300 GWD- Voice controlled Robot using Arduino	Dr. Reena Thomas	reena.thomas@mangalam.in
icceve027	A Comprehensive Review - Energy Efficient Wireless Sensor Network	Ajeesh S	ajeesh.s@saintgits.org
icceve028	Dual-Axis Solar Tracking System with LDR sensors	Aparna Jose	aparna.jose@mangalam.in
icceve029	AI BASED SMART CAR	Raseena Yousof	raseena.yousuf@mangalam.in

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6.3.3 Number of professional development /administrative training programs organized by the institution for

Dates (from-to) (DD-MM-YYYY)	Title of the professional development program organised for teaching staff	Title of the administrative training program organised for non-teaching staff	No. of participants
08.06.2023-09.06.2023	International conference ICAMET 23	-	25

*F. D. S.*  
COORDINATOR - CRITERIA - 6

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*[Signature]*  
HOD/MECH

D. J. RAJESH  
Head of Department  
Department of Mechanical Engineering




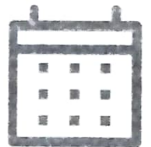
2<sup>ND</sup> Cordially Invite you to

# INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING: TRANSCENDING BOUNDARIES



**CHIEF GUEST**  
**Dr. Saji Gopinath**  
Vice-Chancellor  
APJ Abdul Kalam  
Kerala Technological University

  
Dr. K. PRATHEESH  
Head of Department  
Department of Mechanical Engineering



**08 & 09 JUNE  
2023**

**Venue : Digital Theatre  
10.00AM**

## KEYNOTE SPEAKERS



**Dr. Sharu B. K.**  
Assistant Professor  
Department of Mechanical Engineering,  
National Institute of Technology  
Calicut, Kerala, India



**Dr. Ravi Sankar Haridas**  
Research Assistant Professor  
Department of Mechanical Engineering  
Advanced Materials &  
Manufacturing Processes Institute  
Center for Friction Stir Processing,  
University of North Texas, USA



**Dr. Praveen Bhaskaran Pillai**  
Postdoctoral Research Fellow  
Dept. of Mechanical &  
Aeronautical Engineering  
University of Pretoria, South Africa



**Mr. Madhu Seetharaman S**  
Senior Project Engineer  
(OLED design and fabrication)  
National Centre for Flexible Electronics  
Indian Institute of Technology, Kanpur, U.P. India



# INAUGURAL FUNCTION PROGRAMME SCHEDULE

- 10.00 AM:**                    **Prayer**
- 10.05AM:**                    **Welcome Speech**  
Dr. K. Pratheesh  
Head, Department of Mechanical Engineering,  
MLMCE
- 10.10AM:**                    **Presidential Address**  
Dr. Biju Varghese  
Chairman  
Mangalam Group of Educational Institutions
- 10.15AM:**                    **Principal's Address**  
Dr. Vinodh P Vijayan  
Principal  
Mangalam College of Engineering
- 10.20 AM:**                    **Lighting the Lamp & Inaugural address**  
Dr. Saji Gopinath  
Vice-Chancellor  
APJ Abdul Kalam Kerala Technological University
- 10.35 AM:**                    **Releasing ICAMET '23 Book of Abstracts**
- 10.40 AM:**                    **Felicitation**  
Dr. Sharu B K  
Assistant Professor  
NIT Calicut
- 10.45 AM:**                    **Vote of Thanks**  
Dr. Manikandan H  
Convener  
ICAMET-23