

REFLECTIONS

ECE NEWSLETTER MAY'22

MANGALAM COLLEGE OF ENGINEERING

KOTTAYAM

VOL:IX

QUARTERLY E-NEWSLETTER



Dr. Biju Varghese,
(Chairman, Mangalam
educational institutions)

Dr. Vinod P Vijayan,
(Principal, Mangalam College of
Engineering)

Dr. Abraham C G,
(HOD, ECE, Mangalam College
of Engineering)

VISION

To achieve excellent standards in technical education and engage research in the field of Electronics and Communication Engineering creating employable and innovative professionals who can excel in global challenges

MISSION

- 1. To practice innovative teaching and learning practices in Electronics and Communication domain with effective curriculum enhancement and Industry collaboration.*
- 2. To inspire creative enquiry and innovation in students through excellent training programs and projects for professional skills.*
- 3. To imbibe a sense of team work, ethics combined with social responsibility in students.*

HOD'S MESSAGE

Educational institutions are the training centers for Leadership. Creating a sense of responsibility and taking the initiative to lead is the way to become a good leader. Our actions are guided by our perceptions, which form the basis of our emotions, attitudes, judgments and choices. The Department of ECE has a unique blend of quality conscious staff members with a strong sense of ethical and professional responsibility. The department also has a very good advisory system, class committee and PTA which help in maintaining a good student - teacher-parent relationship. Well-qualified, experienced and dedicated faculty as well as state-of-the-art laboratories and infrastructure have been instrumental in growth of such magnitude. The department has persistently laid equal focus on academics and research and the efforts have borne fruit in terms of university ranks, patents, faculty, and student publications to name a few.

Dr. Abraham C G, MISTE, MIEEE, M-InSc
Professor and Head of the Department ECE

EVENTS OF THE DEPARTMENT

17TH MARCH

Guest lecture on "Opportunities after Engineering through GATE/ESE/PSU" by Mr. Trinath, Sr. Faculty member, Ace Engineering Academy

Coordinators:
Dr. C G Abraham

30TH MARCH

Star Scientific conducted a **Training Program** for faculty members on DSP Lab with TMS320 F2879 based DSP controller.

Coordinators:
Mrs. Jyothisree KR

1ST MAY

Preconference **Workshop** on "Flexible Electronics" by Dr. Vithyasaahar

Coordinator:
Mrs. Simi P Thomas

2ND MAY

Research Talk on "Patents and Designs" by Mr. Balunaik Kethavath.

Coordinators:
Dr. R Radeep Krishna

9TH MAY

Pre-Conference **Workshop** talk on the topic "Interoperability in Smart devices using Web of Things" by Mr. Ganesh Ramanathan, Group technical lead, Siemens Ag, Switzerland

Coordinator:
Ms. Divya Jose

13TH MAY

Expert Talk on "Research Paper Writing and publication process" by Dr. Victor Paul (Asst. Professor IIIT, Kottayam)

Coordinators:
Dr. Derick Mathew

UPCOMING CONFERENCE



About Institution

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.

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
Dr Karthikumar S, HoD-EEE

Conference Chair

Dr R Radeep Krishna, Assoc.Prof-ECE

Organizing Secretary

Dr Derik Mathew, Assoc-Prof -ECE
Mr Reneesh Zachariah, Asst.Prof-ECE
Ms Shoma Mani , Asst.Prof-EEE
Ms Jeepa K J, Asst.Prof-EEE



ICVOICE SPEAKERS

Dr Kung Tae Kim
Emeritus Professor
Hannam University
Southkorea



Dr Edison Roxas
Department Chair
Professor
Department of ECE
University of Santo
Tomas, Philippines



Dr. Ahmed Elngar
Professor
Computers and
Artificial Intelligence,
Beni-Suef University,
Beni-Suef City, Egypt

Advisory Committee Members

Dr Moshe Y Vardi, Rice University, USA
Dr Pragnan Chakravorty, Prodizee, Canada
Dr Vithyasaahar.S, Queensland University of
Technology, Brisbane
Dr Rama S. Komaragiri, Bennet University
Dr Rajesh Joseph Abraham, IIST
Dr M Madheswaran, Muthayammal Engineering College
Dr D Devaraj, KARE
Dr Mamta Mittal, G.B. Pant DSEU.
Dr Krishna Priya M, MITS, Kerala
Dr P Sivakumar, KARE, Tamilnadu.

ICVOICE 2022



Date: 27th and 28th June 2022

INTERNATIONAL CONFERENCE ON VLSI-EMBEDDED OPTICAL IMAGE PROCESSING COMMUNICATION ELECTRICAL SYSTEMS

Organized By

Department of ECE and EEE
Mangalam College of Engineering
Ettumanoor-Kottayam, Kerala
(Affiliated to APJ Abdul Kalam University,
Kerala)

TRACKS:

VLSI Embedded System, Optical, Image Processing, Communication, Electrical Systems

SUBMISSION:

All Regular papers must be in PDF format only, with save-able text. Each paper must be no More than 6 pages (including the abstract, figures, tables, and references), double columned in IEEE Format. Your submission must not include information that serves to identify the authors of the manuscript, such as name(s) or affiliation(s) of the author(s), anywhere in the manuscript, abstract, or in the embedded PDF data. Deadline for Submission of Full paper- 13TH June.

FACULTY ACHIEVEMENTS

1. **Dr. R RADEEP KRISHNA**. “Design Block Chain based model and its role in developing systems of education” filed [Indian Patent 19/Feb/2022](#).
2. **Dr. R RADEEP KRISHNA**. “A Method of optimization of 3D IC physical design flow” filed [Indian Patent 18/March/2022](#).
3. Ram, J. P., Pillai, D. S., **DERICK MATHEW**, Ha, J., & Kim, Y. J. (2022). A simple, reliable and adaptive approach to estimate photovoltaic parameters using spotted hyena optimization: A framework intelligent to predict photovoltaic parameters for any meteorological change. [Solar Energy](#), 236, 480-498. [[Elsevier](#), [SCOPUS](#), [SCI](#), [Impact factor 5.742](#)]
4. Kumhar, S.H., Kapula, P.R., Kaur, H., **R RADEEP KRISHNA**, Kirmani, M.M., Athavale, V.A. and Ahmad, M.W., 2022. Machine Learning Model-Based Applications for Food Management in Alzheimer’s Using Regression Analysis Approach. [Journal of Food Quality](#), 2022. [[Hindawi](#), [SCOPUS](#), [SCI](#), [Impact factor 2.450](#)]
5. **Dr. DERICK MATHEW** – Attended [FDP](#) on “Recent Trends in Bio-Signal Acquisition and Research Perspectives in Signal Analysis” at NSS College of Engineering.
6. **Dr. DERICK MATHEW** – Attended [FDP](#) on “Trends and challenges in EC ecosystem” at KCG College of technology.
7. **Mr. AJITH JOSEPH** and **Dr. DERICK MATHEW** – Attended [FDP](#) on “Programming using Arduino and Raspberry Pi” at NITTTR, Chennai.
8. **Mr. RENEESH C ZACHARIA** – Attended [ATAL FDP](#) on Internet of Things (IoT).
9. **Dr. ABRAHAM** and **Dr. R RADEEP KRISHNA** “3D IC integration using block chain” accepted to publish in [springer](#)
10. **Dr. R RADEEP KRISHNA** received a best paper award from [ICMISC springer conference](#) on 26/3/2022 for the paper named "3D IC integration using block chain".
11. **Mr. AJIT JOSEPH** has been selected as one of the KTU Judge panelist for [IGNITE 2022](#), an Innovation and Entrepreneurship challenge for students across all departments and semesters conducted by Darsana Trust in association with KTU along with Digital University of Kerala, KSUM and K-DISC.
12. **Mr. AJIT JOSEPH**, handled a [WORKSHOP](#) on UNDER WATER ACOUSTIC COMMUNICATION as a pre-event to All Kerala Communications society students conclave2022.

STUDENT ACHIEVEMENTS

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Mangalam College of Engineering
Congratulates!!!

Ms Gopika Vijayakumar
ECE 2021
(Passed Out)



Chief Minister's Excellence Award





Certificate + 1 lakh Award




MANGALAM
COLLEGE OF ENGINEERING
Inspire | Imbibe | Innovate

Dept. of Electronics and Communication Engineering

Congratulations
ACADEMIC TOPPERS
B.Tech Degree 4th Semester Examination, July 2021

 SHREELAKSHMI MADHU SGPA 9.55	 ANESSA RAVEY SGPA 8.5	 NAVYA BENNY SGPA 8.27	 FATIMA FALIU W S SGPA 8.09	 JOHN GEORGE SGPA 8.0
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Heartiest Congratulations

 Sandeep K	 Athira N M
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SUTHERLAND

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Congratulations

OUR FIRST SEMESTER TOPPERS..... ECE 2020-24 BATCH



 AKHIL K SOMAN SGPA 10	 ANAGHA RAKESH SGPA 10	 ANITHA ANIL SGPA 9.93	 DEVIKA RAJ K SGPA 9.93
 AFSSY RASHEER SGPA 9.41	 AKASH P S SGPA 9.24	 LAVANYA K SGPA 9.12	 KARTHI R NITH SGPA 9.09
 VARSHITH JOSEPH SGPA 8.97			

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

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Department of Electronics and Communication Engineering

Heartiest Congratulations

 Akshay Sivan	 Ajay Prakash
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Heartiest Congratulations

 Anish Abraham Ponnuse	
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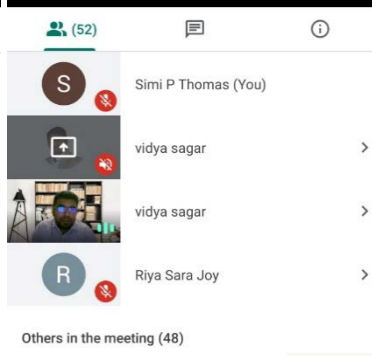
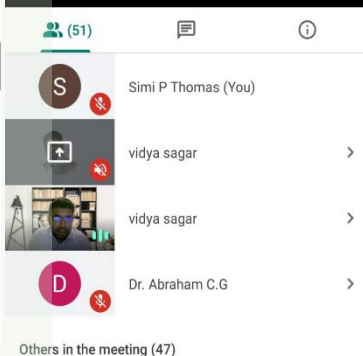
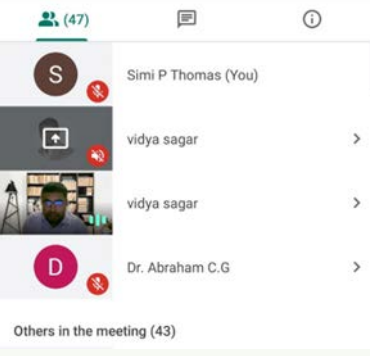
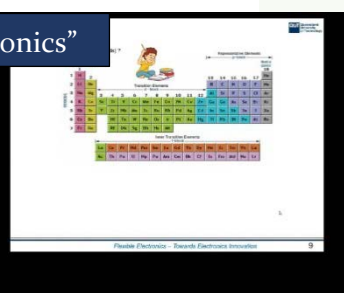
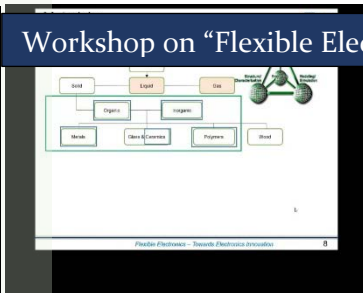
MOMENTS

One day EXPERT TALK on “Research Paper Writing and Publication Process”

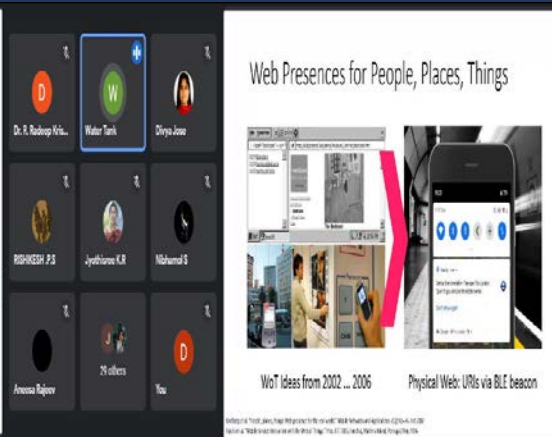


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Workshop on “Flexible Electronics”



Workshop on “Interoperability in smart devices using Web of Things”



MOMENTS

FEST



ALUMNI POINT

I am feeling privileged and glad that I have got this opportunity to share my memories and my personal life through this newsletter.

I am one of those fortunate and grateful students who happened to be a part of MLMCE (during 2002-2006 academic year) and I did my B.Tech - Electronics & Communication engineering. Since we were the first batch students, we really enjoyed the campus life (Without any fear of seniors 😊) in MLMCE and those 4 years helped us to build a strong career foundation for the rest of our lives. When we started our days in Mangalam campus, as individuals, we started to know and understand one another within no time. The help that was accorded to us by the esteemed and experienced teachers, management and staff showed us the way to comprehend the curriculum and groom ourselves for our future. Fortunately, EC batch had the largest headcount of 64 students (I was the 52nd as per roll number) in the first batch. All of us shared a very strong bond among us which made our stay in the college very interesting, productive and memorable.

Even now I am in touch with most of my batchmates and teachers, which has certainly helped me at various stages of my personal life. Throughout the journey that I have treaded in the past 16 years (Since the completion of my B.Tech), I have been able to witness a decent growth in my life as an individual and a professional. My learning at MLMCE has been largely instrumental in helping me to achieve what I have today.

I really feel honored that I am one of the Alumni of MLMCE and I boastfully tell my family & my friends about it.

Thank you.



Subin Joseph,
Project Lead, TCS Canada
Email: subin.jsph@gmail.com

TALENT FORAGE

SHADES OF WOMEN IN OUR LIFE

Women are the pioneers of nation. Indian culture attaches great importance to women, comprising half of world's population. According to a report of secretary general of United Nations, women constitute 50% of human resources, the greatest human resource next only to man having great potentiality. The varieties of role the women assume in the family are those of wife, leader, administrator, manager of family income and last but not the least important the mother. Throughout history, the central role of women in society has ensured the stability, progress and long-term development of nations.

It's widely accepted that agriculture can be the engine of growth and poverty reduction in developing nations. Women, notably mothers, play the largest role in decision-making about family meal planning and diet. Women are the primary caretakers of children and elders in every country of the world. International studies demonstrate that when the economy and political organization of a society change, women take the lead in helping the family adjust to new realities and challenges.

The contribution of women to a society's transition from pre-literate to literate likewise is undeniable. Basic education is key to a nation's ability to develop and achieve sustainability targets. Research has shown that education can improve agricultural productivity, enhance the status of girls and women, reduce population growth rates, enhance environmental protection, and widely raise the standard of living. It is the mother in the family who most often urges children of both genders to attend – and stay – in school. The role of women is at the front end of the chain of improvements leading to the family's, the community's long-term capacity. Today, the median female share of the global workforce is 45.4 percent. Women's formal and informal labor can transform a community from a relatively autonomous society to a participant in the national economy. Despite significant obstacles, women's small businesses in rural developing communities not only can be an extended family's lifeline, but can form a networked economic foundation for future generations. The role of women in the urban and rural workforce has expanded exponentially in recent decades

The theme for International Women's Day 2019 "Think equal, build smart, innovate for change," was chosen to identify innovative ways to advance gender equality and the empowerment of women, accelerating the 2030 Agenda, building momentum for the effective implementation of the new U.N. Sustainable Development Goals. But, the historic and current role of women is indisputable. "When women are empowered and can claim their rights and access to land, leadership, opportunities and choices, economies grow, food security is enhanced and prospects are improved for current and future generations."

– Michelle Bachelet. This beautiful creation of the God! The angel on the earth makes our life a wonderful experience all together. This angel shakes the cradle with one hand the earth with the other hand. The fact that all the great people of the world are born from the womb of a woman and it is a woman from whom those great people have taken their initial teachings. And that is the reason we have always emphasized upon giving the due respect to women in their life. And that is why women's day is celebrated with so much of zeal and it has spread throughout the world.

International women's Day all about feeling women realize their worth and giving them boost to achieve as per their actual potential. On this day the world unites to appreciate their courage to cross all the hurdles and make such tremendous improvement in all most all the spheres of life. Besides that, it is the most important thing to be given emphasis is the work that still needs to be done to fill that gap completely that had existed from ages. A general myth that exists in the society is that issues related to women empowerment can only be addressed at an infinitesimally slower pace. Many people out there in society believe that the gender gap not really exists and some are also of the belief that the efforts made by individuals cannot actually make difference to the gender gap that exists in the society. These beliefs have over the years debilitated the power of women. The first in this Endeavour to eradicating this deep rooted menace is realizing that the problem can only be identified and solved by interacting with the people who are actually irrational taboos of the society. On this day we must realize that every single person's contribution towards fighting a threat of the society counts. International women's day is all about being aware of the fact that each individual has to work in their own way for changing the ugly face of the society.

Vyshnavi (MLM19EC045)
S6 ECE, Mangalam College of Engineering



TEAM BEHIND

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INVITED**



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FACULTY COORDINATOR

Dr. DERICK MATHEW
ASSOCIATE PROFESSOR

STUDENTS COORDINATORS

AMALRAJ C A
MLM19EC008

&

ANEESA RAJEEV
MLM19EC009

For any queries, contact:

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Mangalam College of Engineering, Ettumanoor,
Kottayam | ecereflection@gmail.com

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