

NEWS@CSE

KMEA ENGINEERING COLLEGE, EDATHALA,
ERNAKULAM, KERALA, 683561



Greetings from the CSE Family

The KMEA Engineering College established in 2002, is dedicated to the memory of Sri. C. H. Mohammed Koya, with the aim of setting up high-quality education at par with global standards, promoting education among minority communities, and providing financial aid to the economy's weak and deserving students.

Currently, the college offers B.Tech degrees in six engineering subjects, Civil, Mechanical, Electrical and Electronics, Electronics and Communication, Electronics and Instrumentation, and Computer Science. The college has M.Tech programs in Civil, Electrical, Electronics, and Computer Science. KMEA is affiliated with the APJ Abdul Kalam Technological University, Thiruvananthapuram, and approved by AICTE.

KMEA is committed to providing high-quality education for all of its students. When it comes to the students, KMEA Engineering College leaves no stone unturned with highly qualified faculty and the best infrastructure facilities.

About the Department

The Department of Computer Science and Engineering was established in the year 2002. The department offers both undergraduate and postgraduate programs in Computer Science & Engineering.

The Department has a high faculty-to-student ratio, ensuring that the students will always have ready access to our faculty. A team of well-qualified faculty that keeps their knowledge up-to-date by attending conferences and workshops on a regular basis is a major asset of the department. They are specialized in areas of data and computer security, computer networks, mobile computing, image processing, data mining, artificial intelligence, etc. They encourage students' involvement in various co-curricular activities along with their academics. All faculty actively strive to improve their quality by participating in research-oriented programs and quality improvement training.

The Department molds young outstanding engineers who are academically strong in both theory and practical. The department is constantly producing good results in the University examinations.

VISION

To be a premier department nurturing academically, socially, and industrially competent professionals to contribute innovations for the betterment of society.

MISSION

- To build an invigorating academic environment with an emphasis on basic principles of computer science and engineering.
- To enhance problem-solving skills, team spirit, social responsibilities, ethics, and entrepreneurship skills in the field of computing.
- To promote students for pursuing higher education and research

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PROGRAM EDUCATIONAL OBJECTIVES(PEO)

PEO1:- Acquire knowledge in the subject domain and apply it together with hardware and software skills in the design and implementation of systems that are adaptable to industrial trends.

PEO2:- Socially committed to moral and ethical values in bringing socially acceptable solutions to real-world problems for society through innovations and entrepreneurial activities and enhancing the interpersonal, leadership, and professional skills to lead a successful career and life.

PEO3:- Actively engage in a continuous learning process adapting to the current trends by engaging in lifelong learning, thus pursuing higher studies and research in the subject domain.

PROGRAM SPECIFIC OUTCOMES(PSO)

PSO1:- Our graduates will analyze, design, and solve problems of varying complexity in the fields of Computer Science and Engineering.

PSO2:- Our graduates will function responsibly and ethically, fully committed to the profession and society.

PSO3:- Our graduates will have the ability to apply their knowledge and skills to succeed in their careers and productively engage in innovations and higher learning.

DEPARTMENT FACULTY



Principal's Message



Dr. T.M. Amar Nishad
Principal & Director
KMEA Engineering College

At the outset, I heartily congratulate the Department of Computer Science and Engineering for publishing this edition of the departmental newsletter.

The introduction of this newsletter is the result of your confidence, creativity, and innovation. The College has made tremendous progress in the fields of academics, non-academics, and capacity building relevant to staff and students. I once again congratulate the whole team and hope this will prove to be a milestone in the digital journey of KMEA Engineering College as well as the Department of Computer Science and Engineering.

The wide spectrum of articles in different sections gives me a sense of pride that our students and professors possess potential in diverse fields. Also, my heartfelt congratulations to staff members and students for their fruitful effort.

HoD's Message

I wish to extend my sincere congratulations on the publication of our departmental newsletter. This newsletter's launch is the product of your assurance, imagination, and invention.

The college has made outstanding strides in every area of academic, non-academic, and staff and student capacity building. I am sure that the staff and students who are interested in technical education and activities based on technology will receive a favorable message from this issue of the department newsletter.

The development of writing abilities among teaching staff and students in particular generally occurs as a result of a newsletter, which is similar to a mirror that reflects a clear picture of all the activities carried out by a department. I would like to appreciate the Editorial Board of this newsletter for their excellent work in completing the mission in record time.



Dr. Rekha Lakshmanan
HOD, Department of Computer
Science and Engineering

EVENTS

Industrial Visits

Semester 2

The 2nd-semester students of the Department of Computer Science and Engineering conducted their college trip on 12 September 2022 to Vagamon. Ms. Elia Nibia and Mr. Anas were the faculties incharge of the trip and the student coordinators were Afla Nazrin and C A Kalidas.

They started their journey from the college campus at 5:30 am and reached their destination by 9 am. They visited Pine Valley and Kurishumala. It was a one-day trip and they returned back at 10 pm.



Semester 4



The 4th-semester students of the Department of Computer Science and Engineering conducted an industrial visit to Spectrum Softech Solutions and also had a trip to Wayanad. The 2-day trip was conducted from 10 June 2022 to 12 June 2022. Ms. Sheena Kurian K and Mr. Aju Philip were the faculties incharge and the tour coordinators were Mansoor Majeed and Shahanaz A H.

At Spectrum Softech Solutions the students had a great time understanding the current IT structure and emerging technologies. Network Engineering, its types, scope, and significance were the other topics in this interactive and informative visit. The visit ended with a quiz where the winners were awarded.

The students reached Kurumbalakota in time for the magnificent sunrise. They also visited the Meenmutty waterfalls and 900 Kandi. They spent the whole day enjoying the wonders of Wayanad and the beauty of nature.

Semester 6



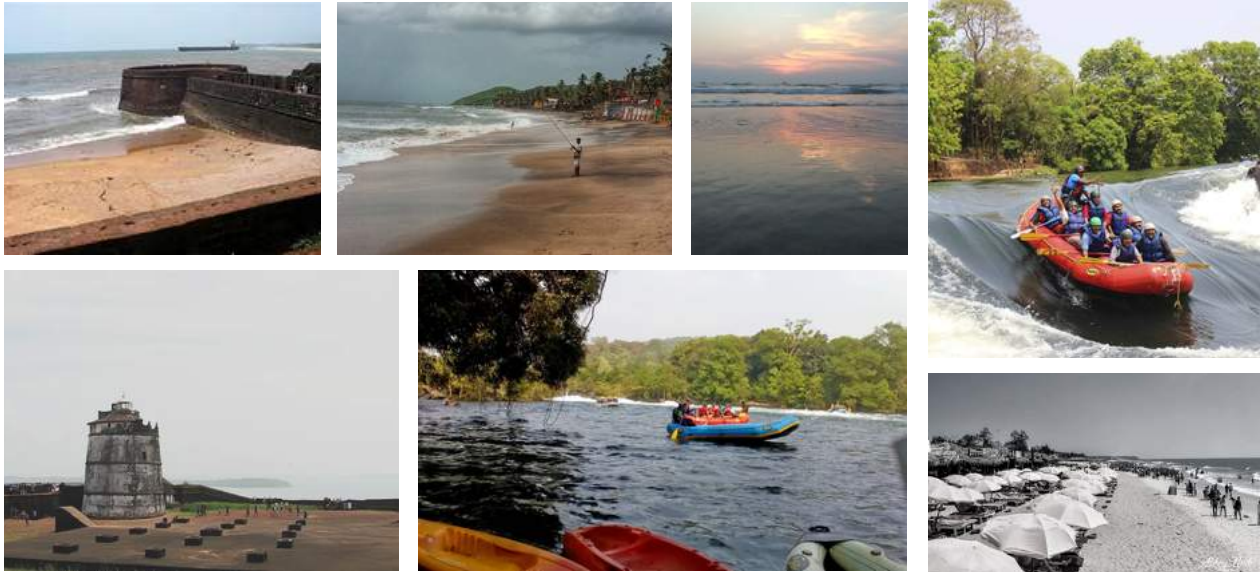
The 6th-semester students of the Department of Computer Science and Engineering successfully completed their industrial visit to Emvigo Technologies, Ernakulam. The industrial visit was conducted from 18th May to 23th May 2022. The team of students was led by Ms. Shyni Shajahan and Mr. Ajmal E B of the Computer Science and Engineering department along with Ms. Meera from the Civil Engineering department. The student coordinators of the visit were Muhammed Arshad and Pooja M.P.

The students spend a considerable portion of their time focusing on the latest web and mobile technologies provided by Emvigo Technologies. The company had shifted from being a product-based one to providing cloud and development-based services. They came across most of their powerful digital products engineered to drive customer growth for the Healthcare, Real Estate, and E-Learning sectors. The students spent the other 3 days site-seeing at popular tourist destinations like Coorg, Chikmangaloor, and Wayanad.

Semester 8

Exploration has always been a fascination for human beings. Students of the 8th semester of the Department of Computer Science and Engineering spent some beautiful moments together along with faculties Ms. Shahina and Mr. Ajmal E.B. The student coordinators were Rizwan K Rahim and Haripriya KS.





They set off on their journey on 10th May and reached back on 15th May 2022. The students had a great time after reaching their first destination; Dandeli where they did river rafting and kayaking. They also tried a number of other water sports activities. They then set off to their next destination; Goa. Students visited Fort Aguada and Calangute Beach, followed by some water sports activities.

Resume Writing and Interview Training Workshop

The Department of Computer Science and Engineering conducted a workshop on resume-making and interview preparation. The 2-day session was conducted on the 9th and 16th of May 2022 by Ms. Maya Menon in collaboration with Mind Empowered. Ms. Maya is the founder of Mind Empowered and is also a guest lecturer at CUSAT.

On the first day, students were given directions and tips on how to make resumes. Students were divided into groups with each having to make their own mock resumes. On the second day, the general interview questions were discussed and students were taught about the etiquettes to be followed in an interview.



ACHIEVEMENTS

Placements

 Anju Gopan Dexlock, TCS, UST	 Abin joseph Emvigo, Systalent	 Kashish S Shah IBS, UST, Infosys	 Lamia Thasni O Nysam IBS, Capgemini, Infosmart	 Leo Paulose Fleming Solutions
 Rizwan K Rahim Quest Global, Zerone	 Roushath beevi K S Capgemini, Thinkpalm	 Nadhiya Shafeeq Vimp Tech	 Muhammad Safeer Techrish	 Nazana P N UST Global
 Muhammed Ameen MA Infosys	 Tharikh Bin Siyad UST Global	 Vazim KA Tech Mahindra	 Rizwana E A ThinkPalm Tech	 Ameena A K TCS, UST
 Shifana Abdul Azeez UST Global	 Aswathy A C TCS	 Haripriya K S UST, Capblue, Federal Bank	 Aswani K S UST Global	 Ameena K A UST Global
 Aysha C R UST, Capblue	 Muhammed Salim K T UST, Netstratum Technologies	 Mariya Ashigha UST, Netstratum Technologies		

Academic Toppers 2018-2022



Anju Gopan
CGPA 9.44



Lamia Thasni O Nysam
CGPA 9.24



Haripriya K.S
CGPA 9.18

Best Outgoing Student 2022



Anju Gopan

YIP'21 Idea Shortlisted

Four ideas were shortlisted for the second round of YIP'21 (Young Innovators Program) from the Computer Science and Engineering department. These ideas belonged to Anju Gopan (S8CSE), Naashath Mohamed (S6CSE), Muhammed Yasin K A (S4CSE), and Aaina Akbar (S4CSE) and their teams.

Winners of Various Events



- 3rd Prize - Boys Group Dance
- Pooja MP, S6 CSE
1st Prize - English Story Writing
- Pooja Lakshmi, S6 CSE
2nd Prize - English Story Writing
- Fahas Basil K J, S4 CSE
3rd Prize - Mapilappattu

- 2nd Prize - Girls Group Dance



- 1st Prize - Girls Oppana
- Gokul Krishna S, S4 CSE
3rd Prize - Shotput
- Pheba Wilson, S2 CSE
Runner up, 7th Kerala Hockey
State Championship 2021



- Adhitya Krishna.S, S4 CSE and
Abdullah Noushad, S4 CSE
1st prize - Badminton

FDP Attended Faculty

Rekha Lakshmanan

- Design of Experiments and Optimization Techniques, Jyothi Engineering College, Thrissur
- Innovation Ambassador training (Foundation Level), MoE's Innovation Cell & AICTE
- Research Training, MSME Technology Development Centre

Selin M

- ML and Data Analytics, MACE, Kothamangalam
- AICTE ATAL FDP on Introductory Data Science and Deep Learning, International Institute of Information Technology
- KTU sponsored Online FDP on "Speech Processing in Deep learning", Department of Computer Science and Engineering, College of Engineering Aranmula, Pathanamthitta

Sheena Kurian K

- Mathematics for ML, Department of CSE, CET
- Recent Trends and Application of NLP, Department of CSE, CMS
- AI, Microsoft India & SAP India in collab with ASAP Kerala under TechSaksham Program.

Abeera V P

- Academic Research: Methods and Strategies; Funding; Publishing in Indexed Journals, KMEA Research and Consultancy Council, KMEA
- Innovation Ambassador training (Foundation Level), MoE's Innovation Cell & AICTE
- AI, Microsoft India & SAP India in collaboration with ASAP Kerala under TechSaksham Program
- Recent Trends and Application of NLP, Department of CSE, SCMS
- IP awareness Training Program, NIPAM

- Hands-on Introduction to Deep Learning, Department of ECE & Department of CSE, Amrita School of Engineering Coimbatore

Vidya Hari

- Academic Research: Methods and Strategies; Funding; Publishing in Indexed Journals, KMEA Research and Consultancy Council, KMEA
- ML and Data Analytics, MACE, Kothamangalam

Elia Nibia

- Web design and Development, St. Thomas Institute for Science and Technology, TVM
- Deep Learning for Image and Video Applications, LBS College of Engineering, Kasaragod
- Data Analytics using R, Thangal Kunju Musaliar Institute of Technology

Maria Joy

- Cryptography and Cyber Security, National Institute of Technology Agartala.
- Blockchain Technologies and Decentralized Environments, IIT Guwahati and University of Catania
- Aurora AR App, Edtech Startups, technological solutions in Education
- IP awareness Training, NIPAM

Ajmal E B

- Academic Research: Methods and Strategies; Funding; Publishing in Indexed Journals, KMEA Research and Consultancy Council, KMEA
- Management of Software Systems, CET
- AI, Microsoft India & SAP India in collaboration with ASAP Kerala under TechSaksham Program
- AI and Data Science, SNGCE

Veena K Viswam

- Academic Research: Methods and Strategies; Funding; Publishing in Indexed Journals, KMEA Research and Consultancy Council, KMEA

Journal Publications

- Ashique Sherief, Muhammed Fayas, Adol Antony George, Adish H, Shyni Shajahan. "Fruit Disease Detection Using CNN". IJCST V10(3): Page(157-161) May - Jun 2022. ISSN: 2347-8578. www.ijcstjournal.org. Published by Eighth Sense Research Group.
- Anju Gopan, Haripriya K.S, Jeethu Joshy, Sheena Kurian K. "A Brief Introduction To Malayalam Text Summarization". IJCST V10(3): Page(185-192) May - Jun 2022. ISSN: 2347-8578. www.ijcstjournal.org. Published by Eighth Sense Research Group.
- Farzana Khareem, Muhammad Safeer, Nadhiya Shafeeq, Shanavas K S, Lija Joy. "Online Voting System Using Blockchain Technology". IJCST V10(3): Page(193-196) May - Jun 2022. ISSN: 2347-8578. www.ijcstjournal.org. Published by Eighth Sense Research Group.
- Aisha Farhana, Aswani K.S, Aswathy A.C, Divya Jolly M, Elia Nibia. "Review On Handwritten Digit Recognition Using Deep Learning". IJCST V10(3): Page(197-203) May - Jun 2022. ISSN: 2347-8578. www.ijcstjournal.org. Published by Eighth Sense Research Group.
- Albin Sunny, Farzeen Riaz, Aman Naveen Sait, Farhana Shirin K.N, Ajmal E.B. "Generative Adversarial Network Based Baggage Inspection". IJCST V10(3): Page(227-233) May - Jun 2022. ISSN: 2347-8578. www.ijcstjournal.org. Published by Eighth Sense Research Group.
- Ameena K A, Aparna K, Aysha C R, Nazana P N, Vidya Hari. "Survey on Skin Disease Detection Using Image Processing Technique". IJCST V10(3): Page(218-226) May - Jun 2022. ISSN: 2347-8578. www.ijcstjournal.org. Published by Eighth Sense Research Group.
- Abin Joseph, Ameena A.K, Lamia Thasni O Nysam, Abeera V P . "Review On Sentiment Analysis of Social Media Malayalam Text". International Journal of Computer Science Trends and Technology (IJCST) V10(3): Page(147-156) May - Jun 2022. ISSN: 2347-8578. www.ijcstjournal.org. Published by Eighth Sense Research Group.
- Rizwan K Rahim, Muhammed Ameen M.A, Muhammed Salim K.T, Tharikh Bin Siyad, Selin M . "Automatic Speaker Recognition: A Survey". IJCST V10(3): Page(179-184) May - Jun 2022. ISSN: 2347-8578. www.ijcstjournal.org. Published by Eighth Sense Research Group.
- Roushath Beevi K S, Riswana E A, Sandra Santhosh, Salmath K A, Jisha Jamal. "Survey on Stock Market Prediction Using Reinforcement Learning". International Journal of Computer Science Trends and Technology (IJCST V10(3): Page(162-165) May - Jun 2022. ISSN: 2347-8578. www.ijcstjournal.org. Published by Eighth Sense Research Group.
- Vazeem K A, Said Muhammed Sidhinam, Leo Paulose, Rekha Lakshmanan. "B2B E-Commerce Platform Learning A Survey". IJCST V10(3): Page(166-170) May - Jun 2022. ISSN: 2347-8578. www.ijcstjournal.org. Published by Eighth Sense Research Group.
- Maria Ashigha, Rasha Shajahan, Shifana Abdul Azeez, Kashish S Shah, Veena K Viswam. "Mental Health Monitoring Using Machine Learning: A Survey". IJCST V10(3): Page(171-178) May - Jun 2022. ISSN: 2347-8578. www.ijcstjournal.org. Published by Eighth Sense Research Group.
- Selin, M., and K. Preetha Mathew. "Text-independent Speaker Verification Using Hybrid Convolutional Neural Networks." Webology 18.2 (2021).

Internships



Abina Fathima
Gtech Mulearn
S4 CSE



Mansoor Majeed
Gtech Mulearn
S4 CSE



Nidal Yoonus
Gtech Mulearn
S4 CSE



Muhammed Arshad
TinkerHub
S6 CSE



Nazeeya Azeem
Gtech Mulearn
S6 CSE

MOUs

- LINSYS INNOVATIONS PVT LTD
- AESTER INDIA PVT LTD
- EMVIGO TECHNOLOGIES PVT LTD
- OMEGA SERVICES & CONSULTANTS PVT LTD
- FACE ACADEMY
- SYSTALENT
- MIND EMPOWERED

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