MOOKAMBIGAI
COLLEGE OF ENGINEERING

DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING

‹QUBIT›

2021 - 2022

Founded in 1985, Mookambigai College of Engineering is an offspring of the Sri Mariamman Educational, Health and Charitable Trust, Woraiyur, Tiruchirappalli. The Management consists of a team of progressive minded and benevolent Trustees who has at the helm the far-sighted and enthusiastic Founder Chairman Late Thiru S. Subramaniam. Srinivasa Polytechnic is also run by the Trust in the same campus.

Since its inception, Mookambigai College of Engineering has been treading a path of steady and sustained growth and achievements. Today this institution is an epitome of excellence bearing testimony to the high educational standards with a bi-dimensional perspective viz. dedicated student faculty involvement and a continuous industry-institution- society interaction.

The Institution is affiliated to Anna University, Chennai. It is located on a sprawling 200 acres of land in the tranquil and serene village of Kalamavur on Trichy-Pudukkottai highway, 20 kms from Trichy Airport which is the geographical centre of Tamil Nadu.

Presently, the alumni of our college exceeding 13500 are present around the world in various countries, who offer inspiring testimony to the credentials of their "Alma Mater".

We have dedicated ourselves for the cause of generating talented and competent Engineers with commendable ethical and moral values, who can contribute to our country's sustained growth towards becoming one of the Developed Nations of the World.
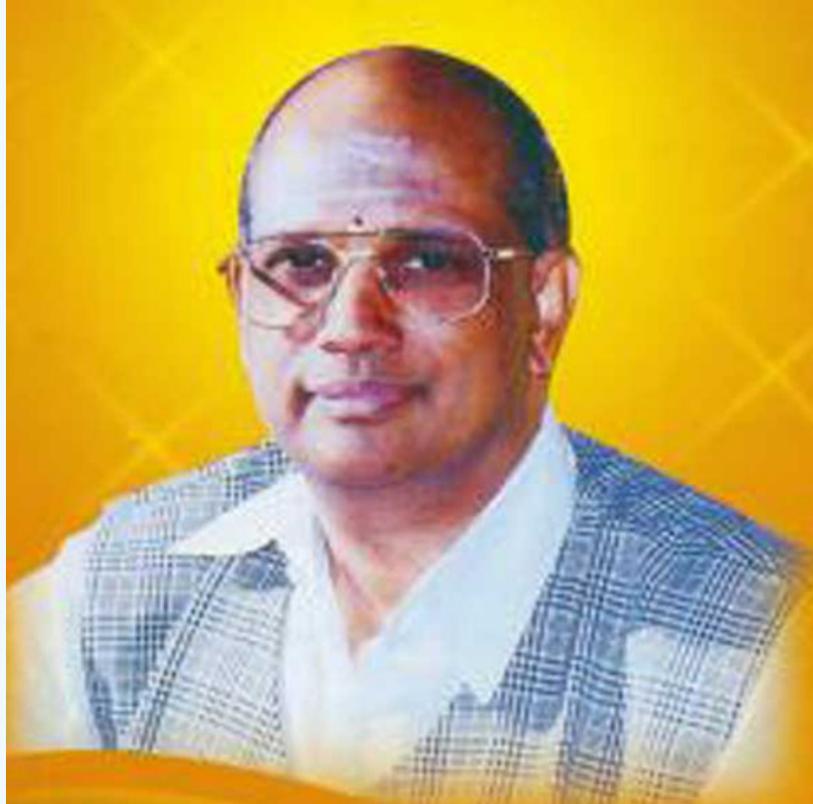
Late Thiru S. Subramaniam.
FOUNDER CHAIRMAN

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VISION OF INSTITUTE

- **To be an institution of excellence committed to quality engineering education and research towards producing socially responsible citizens.**

MISSION OF INSTITUTE

- **To impart quality technical education in producing competent engineers by providing a conducive learning environment.**
- **To build a high quality human resource capacity with focus on professionalism and dedication.**
- **To inculcate ethical values by adopting holistic teaching methodologies.**
- **To instill innovative thinking and entrepreneurial traits by collaborating with industry and academia.**

VISION OF DEPARTMENT

- **To produce competent software engineers with ethical values for the betterment of society.**

MISSION OF DEPARTMENT

- **To foster quality education in computer science by facilitating learner centric environment.**

- **To improve problem solving skills, leadership qualities, team spirit with ethical responsibilities by practicing on latest technological. developments**

- **To enhance the students' employability by inking MoU with industries.**

- **To motivate the students to bring out their talents by improving participation in various activities.**

PROGRAM EDUCATIONAL OBJECTIVES OF

CSE DEPARTMENT

- Serve professionally while engaging in government firms, industries or being entrepreneurs.

- Work effectively in different fields with a core expertise in analysis, design, networking, security and development using advanced tools.

- Exhibit the leadership in diverse fields with fulfilment and ethical values while working with interdisciplinary teams

- Develop professionally by independent lifelong learning and have an attitude to adapt to emerging technologies

PROGRAM SPECIFIC OUTCOMES OF

CSE DEPARTMENT

- To analyze, design and implement complex Engineering problems by applying fundamental concepts of Computer Science and Engineering.

- To apply software Engineering principles and practices for developing quality software for scientific and business applications

- To adapt with emerging programming languages and various components of a system which will be competent to address contemporary issues

EDUCATIONAL OBJECTIVES OF

CSE DEPARTMENT

- **To prepare students for developing excellence in Professional Career, Research & Development and in Higher Education by having deep understanding of Mathematics, Computing and Engineering principles.**

- **To enable students to meet real life challenges, designing appropriate computing systems that are technically sound, economically feasible and socially acceptable in current time changing environment by using modern tools.**

- **To encourage, motivate and prepare Learner's for Lifelong-learning.**

- **To develop the ability among students to scrutinize the social and human context of computing as it impacts individuals, team work, organizations and society including ethical, legal, security and global policy issues.**

- **To train students with innovative ideas, skills with best learning, teaching and leadership qualities.**

EDUCATIONAL OBJECTIVES OF

CSE DEPARTMENT

- An ability to analyze the local and global impact of computing on individuals, organizations, and society.

- An understanding of professional, ethical, legal, security and social issues and responsibilities.

- An ability to function effectively individually and on teams, including diverse and multidisciplinary, to accomplish a common goal.

- An ability to communicate effectively for knowledge, convincing methodologies formulated with a range of audiences.

- An ability to work and learn independently and an appreciation of the importance of continuing education and professional growth over the course of a lifetime.

- An understanding of engineering and management principles and apply these to manage projects technically and economically

EXECUTIVE COUNCIL OF INSTITUTE

MRS. R.UMA
CHAIRPERSON

Ever since the founder Chairman Thiru S. Subramaniam went to his eternal abode in 2016, his daughter Tmt. R. Uma took up this herculean responsibility of the administration of the institution. She adorns the chair of her beloved father with the same spirit and mind, following his footprints. She is committed to safe guard the nodal legacy that her father had left behind.

EXECUTIVE COUNCIL OF INSTITUTE

MR. D.RAVI
CHIEF EXECUTIVE

The Chief Executive Thiru D. Ravi is not only the life partner of the Chairperson Tmt. R. Uma, but also the sole person who shoulders her in administering the institution with the spirit of the Chairman. From administration to academics, every activity is overseen by him. He is in constant consultation with the Director and the Principal to ensure the development of the institution and progress in academics.

EXECUTIVE COUNCIL OF INSTITUTE

Dr.Prof. P.VASUDEVAN
DIRECTOR

Dr. R.ELANGOVAN
PRINCIPAL

DR.M.G.SOMASUNDARA MOORTHY
ADMINISTRATIVE OFFICER

Dr.Prof. P.VASUDEVAN
DIRECTOR

Dear STUDENTS,

MOOKAMBIGAI COLLEGE OF ENGINEERING, having a glorious past of about 36 years after independence, has been the foremost institution of higher technical education in the southern region. This institution of higher learning has immensely contributed to the nation building by providing intellect talent possessing latest analytical, design, practical and managerial skills.

Our students have infiltrated into all sectors be it government, private or public to serve the country in various capacities. Our competent faculty and the State of The Art infrastructure together with compulsory 6 months internship programme at an industry of repute help them in developing their overall personality to meet the challenges at global level and come out with the optimum solutions.

It is my strong belief that given an opportunity, the students of this great temple of learning will prove an asset to the recruiting organisations. We extend a warm invitation to the organisations/companies looking for budding engineers to visit our serene campus for a possible human resource par excellence. We are also looking for mutual association and collaboration with the industry at various other levels, for example, guest lectureships, workshops, laboratory mentorships, joint R & D projects etc., and would highly appreciate industry participation in this endeavour.

Regards,

DR.PROF. P.VASUDEVAN
DIRECTOR

Contact Us

E-mail
pdkmce@gmail.com

Phone
04339 - 262141, 262273

Dr. VALARMATHI NACHIYAPPAN,
HEAD OF THE DEPARTMENT.

Dear STUDENTS,

Welcome to Department of Computer Science & Engineering, MCE.

   The Department of Computer Science and Engineering welcomes you to be a part of the thriving computer science community and become visionaries and change makers of the future. Department of CSE came into existence in the year 1991 with an intake of 60 and at present, the department has an intake of 180. Our distinguished faculty members ensure a wide range of diverse learning experiences ranging from the fundamentals of Computer Science, Core Courses, Programming, Emerging Technologies like Big Data Analytics, Data Mining, IoT, AI, Machine Learning, Cyber Security, Block-chain, Professional Ethics, Research Methodologies and Open-Source Technologies—to name just a few.

  The Department is proud to have a strong-alumni-network, many of whom hold influential positions in the Information Technology industry and academia, at both, national and international levels. We look forward to having talented students, researchers, academicians, and professionals join us and augment the healthy and competitive learning atmosphere we have on campus! Also CSE department is having MoUs with some of the best organizations and trying to strengthen them further

Regards,

DR.,VALARMATHI NACHIYAPPAN

HEAD OF DEPARTMENT

Contact Us

E-mail
pdkmce@gmail.com

Phone
04339 - 262141, 262273

FACULTY MEMBERS

Dr. P. Valarmathi M.E.,Ph.D.
HOD & Professor

Dr. P. Vasudevan M.E.,Ph.D.
Professor

Mrs. D. Ramya Cauvery, M.E.,
Assistant Professor

FACULTY MEMBERS

Ms. C.Sakunthala, M.E.,
Assistant Professor

Mrs. M. Flora Mary, M.E.,
Assistant Professor

Mrs. Y. Suganya M.E.,
Assistant Professor

FACULTY MEMBERS

Mrs. G. Sharmila M.E.,
Assistant Professor

Mrs. S. Sigappi, M.E.,
Assistant Professor

Mrs. B. Jeyanthi M.E.,
Assistant Professor

FACULTY MEMBERS

Mr. V. Rajesh M.E.,
Assistant Professor

Mr.T.JahirHussaini M.E.,
Assistant Professor

Mrs. C. Gokila Priyatharshini M.E.
Assistant Professor

THE POWER OF ARTIFICIAL INTELLIGENCE

-Arul Selvi
Final year CSE

Artificial Intelligence (AI) is a game-changer, reshaping how we work, live, and interact with technology. It's come a long way since the 1950s, evolving from an idea to a practical tool thanks to better computers, smarter algorithms, and more data. In this article, we'll explore how AI is being used across different fields and what challenges and opportunities lie ahead.

How AI is Used

AI is everywhere, making things faster, smarter, and more efficient. In healthcare, it helps doctors diagnose diseases and plan treatments. In finance, it predicts market trends and executes trades. Virtual assistants powered by AI offer personalized customer service, and autonomous vehicles are changing how we travel. Smart cities use AI to manage resources better. The possibilities are endless.

Challenges and Ethics

But AI isn't without its problems. There are concerns about privacy, bias in algorithms, and people losing their jobs to automation. We need to make sure AI is developed and used responsibly. We also have to think about the risks of AI becoming too powerful and uncontrollable. It's crucial to have rules and discussions about how AI should be used to benefit everyone.

Looking Ahead

The future of AI is exciting yet uncertain. Researchers are exploring new frontiers like explainable AI and quantum computing. AI combined with other technologies like the Internet of Things opens up even more possibilities. But as AI gets more advanced, we need to remember that humans should always be in control. It's about working together with AI to create a better world.

EXPLORING VIRTUAL REALITY

-Jenifer
Third year CSE

Virtual Reality (VR) is an exciting technology that transports you to entirely different worlds using special headsets. In this article, we'll discover what VR is all about, how it's used, and the possibilities it offers.VR takes you into digital worlds that feel real. You wear a headset that covers your eyes and ears, making you feel like you're actually inside the virtual environment.

How VR is Used

VR has many uses beyond gaming. In healthcare, it helps doctors practice surgeries or treat phobias. Architects use VR to walk through buildings before they're built. And in education, students can explore historical places or even outer space without leaving the classroom.

How VR is Used

VR has many uses beyond gaming. In healthcare, it helps doctors practice surgeries or treat phobias. Architects use VR to walk through buildings before they're built. And in education, students can explore historical places or even outer space without leaving the classroom.

Challenges and Opportunities

Despite its transformative potential, VR faces several challenges, including technological limitations, content creation costs, and concerns regarding motion sickness and sensory overload. Additionally, ensuring inclusivity and accessibility remains paramount to democratizing VR experiences for diverse audiences. However, with each challenge comes an opportunity for innovation, collaboration, and exploration, as developers and creators strive to push the boundaries of what VR can achieve.

Conclusion

Virtual reality stands as a testament to human ingenuity and creativity, offering a gateway to infinite realms of possibility. As VR technology matures and evolves, its impact on society will only continue to grow, transforming how we learn, play, create, and connect. By embracing the boundless potential of virtual reality, we embark on a journey of exploration and discovery, where the lines between the real and the virtual blur, and imagination knows no bounds.

UNVEILING THE POTENTIAL OF 5G TECHNOLOGY

-Pavithra
Second year CSE

5G technology represents a quantum leap in wireless communication, promising unprecedented speed, reliability, and connectivity. In this article, we'll delve into the world of 5G, exploring its capabilities, applications, and the transformative impact it's set to bring.

Applications Across Industries

The potential applications of 5G span various sectors, heralding a new era of innovation and efficiency. In healthcare, 5G facilitates remote surgeries, real-time patient monitoring, and telemedicine, transcending geographical barriers to healthcare access. In manufacturing, it fuels the rise of smart factories equipped with IoT sensors and autonomous robots, optimizing production processes and enhancing productivity.

Moreover, in transportation, 5G enables connected vehicles to communicate with each other and infrastructure, paving the way for safer roads and autonomous driving. From augmented reality (AR) and virtual reality (VR) experiences to immersive gaming.

Challenges and Considerations:

While blockchain technology holds immense potential, it also faces several challenges, including scalability, interoperability, and regulatory concerns. Additionally, the energy consumption associated with certain blockchain networks, particularly proof-of-work-based systems like Bitcoin, has raised environmental concerns.

In conclusion, blockchain technology has the potential to revolutionize numerous industries by providing secure, transparent, and decentralized solutions. As the technology continues to evolve and mature, it will be essential for businesses and organizations to carefully consider its applications and address the associated challenges.

Conclusion

5G technology represents a paradigm shift in connectivity, poised to redefine how we live, work, and interact with the world around us. Its transformative impact spans industries, driving innovation, and unlocking new possibilities.

PLACEMENT RECORDS (2020-2021)

S.No	Name of the Student	Enrolment No.	Employee Name	Appointment No.
1.	AAKASH K	812817104001	IDEAS2 IT TECHNOLOGIES PVT LMT, SOFTWARE ENGINEER	Sep-21
2.	ABHINAYA T	812817104002	IRIS STEEL COMPANY	Jul-21
3.	ABIKA S	812817104003	ENIMENCE BUSINEES SOLUTION	2021
4.	AJAY J	812817104004	HDFC	Sep-21
5.	ALTRIN AJAYSINGH S	812817104007	IDFC BANK FINANCIAL	2021
6.	ANEST JEFERSON I	812817104008	TRIMBLE INFORMATION TECHNOLOGY INDIA PVT LMT,	Nov-21
7.	ARUL JOEL SP	812817104011	OMAGA	Sep-21
8.	BHARKAVI M	812817104017	ENIMENCE BUSINEES SOLUTION	2021
9.	DAYANA M	812817104018	ENIMENCE BUSINEES SOLUTION	2021
10.	DIVYA BHARATHI S	812817104020	TCS	Mar-22
11.	EBINESAR F	812817104021	B2C DATA ENTRY	Apr-22
12.	ELAKKIYA E	812817104022	ENIMENCE BUSINEES SOLUTION	Jul-05
13.	ENIYAVAN E	812817104023	INFOSYS	2021
14.	GAYATHRI M	812817104024	VR DELLA	2021
15.	GRACY BEULA C	812817104026	SIGMA	May-22
16.	HARI DHARANI S	812817104027	SIGMA	May-22
17.	HARIHARAN P	812817104028	IMART ICUS	Jun-22
18.	HARITHA S	812817104029	CRYTOGRAPHICS SOLUTION FRONT END DEVLOP	2022
19.	JAYAPRADHA R	812817104030	APPEXON	May-22

PLACEMENT RECORDS (2020-2021)

20.	KANCHANA M	812817104033	HDFC BANK FINANCIAL	2021
21.	KARTHIKEYAN S	812817104034	CVI ELECTRONICS SERVICING	Nov-21
22.	KAVINILA E	812817104036	SAN MEDIA LTD	Jun-21
23.	LINCY ROSITA L	812817104037	INFOSYS	Mar-22
24.	MANIKANDAN K	812817104038	ASSISTANT MANAGER DAN CORPORATION	Jun-21
25.	PREM M	812817104702	CTS	Dec-21
26.	MANIRATHNAM V	812817104039	MIND TREE CHENNAI	2021
27.	MOHAN K	812817104040	RAPIDA,(P.T)	May-22
28.	NEPOLEON M	812817104042	HCL	Jan-22
29.	NIRMALRAJ M	812817104043	GOLD WINNER AGENGY	2022
30.	NITHIYA P	812817104044	TEXORD INFO	Feb-22
31.	PAVITHRA M	812817104046	ENIMENCE BUSINEES SOLUTION	2021
32.	POOVAZHAGI M	812817104047	SAN MEDIA LTD,SOFTWARE DEVELOPER	Sep-21
33.	PRAVIN A	812817104049	HCL SOFTWARE ENGG	2021
34.	RANJANI M	812817104053	LIFO TECHNOLOGY	2022
35.	RANJITHA K	812817104054	SIGMA TECH	Feb-22
36.	RINI G	812817104055	L & T	Feb-22
37.	SANTHIYA P	812817104058	SIGMA TECH	Feb-22
38.	SARANYA M	812817104060	ENIMENCE BUSINEES SOLUTION	2021
39.	SARAVANA KUMAR N	812817104062	INFOSYS	Dec-21
40.	SHALINI R	812817104063	ENIMENCE BUSINEES SOLUTION	2021
41.	SHANMUGAPRIYA S	812817104065	ENIMENCE BUSINEES SOLUTION	2021
42.	SIDHARTHAN J	812817104066	CAPGEMINI	Oct-21

PLACEMENT RECORDS (2020-2021)

43.	SNEHA C	812817104067	VR DELLA	2021
44.	SOWMIYA R	812817104069	VR DELLA	2021
45.	SOWMIYA S	812817104070	HCL MADURAI	2022
46.	SUBALAKSHMI R	812817104071	ENIMENCE BUSINEES SOLUTION	2021
47.	SUKASINI S	812817104072	VR DELLA	2021
48.	SURYAKUMAR R	812817104073	ATER ENERGY PVT LIMITED,NETWORK ENGG	Dec-21
49.	VANITHA S	812817104074	ENIMENCE BUSINEES SOLUTION	2021
50.	VIJAY C	812817104076	AARYA TECHNOLOGIES	Oct-21
51.	VINO PRIYA S	812817104077	SCIENTIFIC PUBLISHING SERVICE	Nov-21
52.	HYDERALI S	812817104701	ATOS	Apr-22

Congratulations to all the placement students! Your hard work and dedication have paid off, and we're thrilled to celebrate your achievements. Here's to the exciting journeys ahead and the bright futures you're destined to create!

- MCE

STUDENTS ACHEIVMENTS

Our Students have won Winner Trophy in MCE's Marchpast

Our Students have won various prizes and Overall Trophy in Anna University BIT Campus, Trichy

Abith Hussain & Siva Shankar have won **frist prize** in Project Expo at Anna University BIT campus, Trichy

Rajalakshmi & Pooja have won **frist prize** in Paper Presentation at Saranathan College of Engineering

Harshia have won **frist prize** in Debugging at Saranathan College of Engineering

Our Students have Participated in various events at Mount Zion College of Engineering

Our Students have Participated in Overall Trophy at Sudharsan Engineering College

EVENTS

we celebrate **Engineers Day,** an occasion dedicated to honoring the contributions of engineers to society

NATIONAL SERVICE SCHEME

NSS Day, a day dedicated to celebrating the spirit of volunteerism and community service

CARREER GUIDANCE SEMINAR

With this thought in mind on one day career guidance Seminar was organized by the Career Guidance Cell.

A team of Government Officials from the Regional Employment Office, Trichy and Pudukkottai conducted one day workshop for the third and the final Year Students on Career opportunities, Employment Registration Process and all the other details pertaining to the Career. Mr.Kalaiselvan District Employment Officer, Mr. Velmurugan Junior Employment Officer, Mrs.Nagalakshmi Ministry of Labour India.

NATIONAL TECHNOLOGY DAY

National Technology Day is a tribute to the scientific community and technological advancements in India.

FACULTY SEMINAR

Our faculty member Dr. M. Sundar Prakash Balaji M.E.,Ph.D. Professor gave seminar on Cyber Security

FACULTY ACHEIVEMENTS

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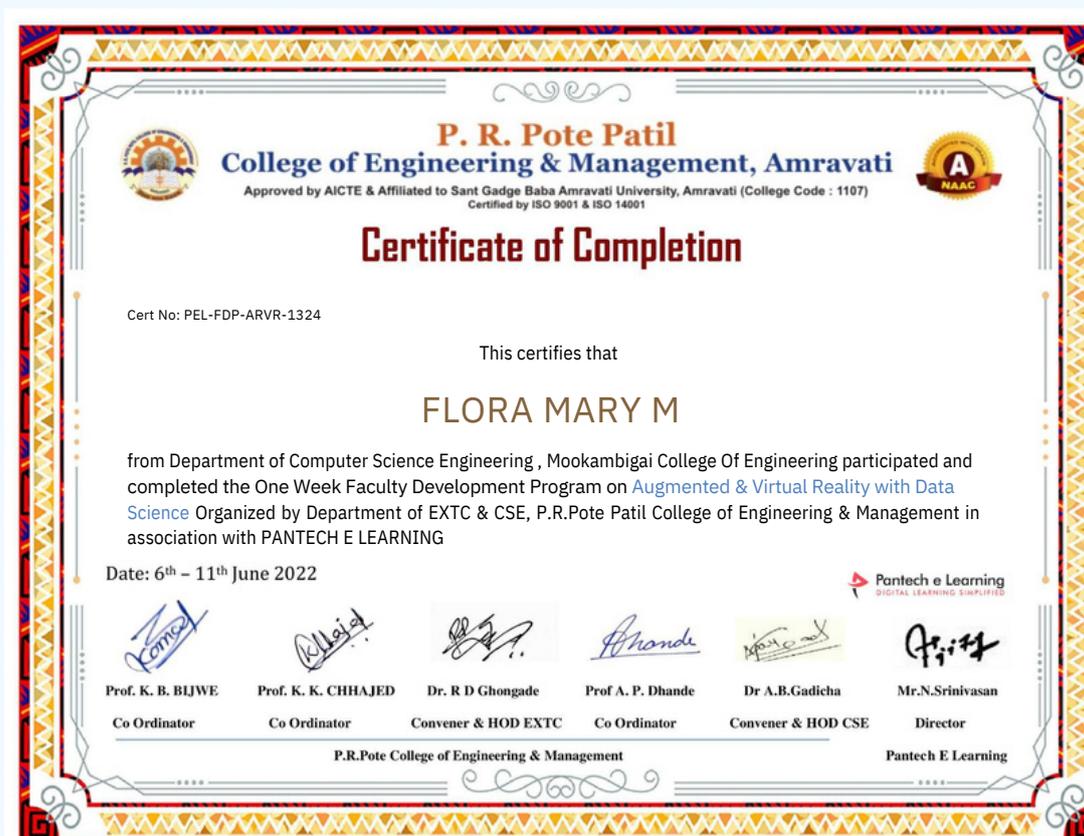
JOURNAL PUBLICATION

AshokBekkanti,Aishwarya,Y.Suganya,Dr.P.Valarmathi ,Sumathi Ganesan and CMAK Zeelan Basha,'Novel approach of Internet of Things (IoT)Based Smart Ambulance System Patient's HealthMonitoring', Second International Conference on Smart Electronics and Communication (ICOSEC),IEEE plore,December 23,2021,Pg.no 29-34.

Y.Suganya,Dr.Sumathi ganesan,Dr.P.Valarmathi,"Comparative Analysis of Ovarian ImagesClassification for Identification of Cyst Using Ensemble MethodMachine Learning Approach", ECS Transcation ,ICTSGC-2021,Mar 2022.
Y.Suganya,Dr.Sumathi ganesan,Dr.P.Valarmathi,"Comparative Analysis of Ovarian ImagesClassification for Identification of Cyst Using Ensemble MethodMachine Learning Approach", ECS Transcation ,ICTSGC-2021,Mar 2022.

JOURNAL PUBLICATION

Y.Suganya,Dr.Sumathi ganesan,Dr.P.Valarmathi,"Ultrasound Ovarycyst image classification with deep learning neuralnetwork and Supportvector machine ",International Journal of Health Science,May 2022.

Y.Suganya,Dr.Sumathi ganesan,Dr.P.Valarmathi,"Ultrasound Ovary cyst image classification with deep learning neural network and Support vectormachine ",International Journal of Health Science,May 2022.

M. Sundar Prakash Balaji1,* , V. R. Vijaykumar2 , Kamalraj Subramaniam3 , M. Kannan4 and V. Ayyem Pillai VLSI Implementation of Optimized 2D SIMM Chaotic Map for Image Encryption

LIVE

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