MOOKAMBIGAI
COLLEGE OF ENGINEERING

Srinivasa Nagar, Kalamavur, Pudukkottai-Dist 622502

DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING

<QUBIT>

VOLUME - III

2022 - 2023

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

Dr. M. Sundar Prakash Balaji M.E.,Ph.D.
Professor

FACULTY MEMBERS

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

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

Mrs. Y. Suganya M.E., (Ph.D.,)
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

Ms. X. Xavitha M.E.,
Assistant Professor

FACULTY MEMBERS

Ms. G.Keerthanasri M.E.,
Assistant Professor

Mrs.K.Jayasri M.E.,
Assistant Professor

MACHINE LEARNING

-Jegan
Final year CSE

In the modern era, the rapid advancement of technology has propelled machine learning to the forefront of innovation across various industries. From personalized recommendation systems to autonomous vehicles, the applications of machine learning are seemingly boundless. However, as the capabilities of these algorithms expand, so too do the ethical and practical considerations surrounding their use.

Machine learning, a subset of artificial intelligence, empowers computers to learn from data without explicit programming. Through the analysis of patterns and algorithms, machines can make predictions, identify trends, and even make decisions autonomously. This ability has revolutionized numerous fields, including healthcare, finance, manufacturing, and entertainment.

One of the most profound impacts of machine learning lies in its ability to transform vast amounts of data into actionable insights. Healthcare providers can leverage machine learning to diagnose diseases earlier, predict patient outcomes, and personalize treatment plans based on individual characteristics. Financial institutions utilize algorithms to detect fraud, assess credit risk, and optimize investment strategies with unprecedented precision.

Moreover, machine learning algorithms are instrumental in enhancing user experiences across digital platforms. From streaming services recommending personalized content to e-commerce platforms offering tailored product suggestions, these algorithms continuously refine their recommendations based on user interactions, preferences, and feedback.

BIG DATA ANALYTICS

-Harshia
Third year CSE

Big data analytics refers to the process of examining large and varied datasets to uncover hidden patterns, correlations, and other valuable insights. Unlike traditional data analysis methods, which often rely on sampling or structured data, big data analytics deals with unstructured and semi-structured data from diverse sources, including social media, sensors, mobile devices, and more.

Key Components of Big Data Analytics:

1. **Data Collection:** The first step in big data analytics involves collecting vast amounts of data from multiple sources. This can include structured data from databases, as well as unstructured data from social media, emails, videos, and other sources.

2. Data Storage: Once collected, the data needs to be stored in a way that allows for easy access and analysis. Many organizations use data lakes or distributed storage systems to store large volumes of data cost-effectively.

3. **Data Processing: R**aw data is often noisy and requires cleaning and preprocessing before analysis. Data processing techniques such as filtering, sorting, and aggregation are used to prepare the data for analysis.

4. **Data Analysis:** This is the heart of big data analytics, where advanced algorithms and techniques are applied to extract insights from the data. Machine learning, statistical analysis, data mining, and predictive modeling are some of the methods used for analysis.

Big data analytics has emerged as a game-changer for businesses and organizations looking to gain actionable insights from the ever-growing volume of digital data. By leveraging advanced analytics techniques and technologies, organizations can unlock valuable insights

BLOCKCHAIN TECHNOLOGY

-Atchayasri
Final year CSE

Blockchain technology has emerged as a revolutionary concept with the potential to transform various industries, ranging from finance to supply chain management. At its core, blockchain is a decentralized and distributed ledger system that securely records transactions across a network of computers

Applications of Blockchain:

1. Cryptocurrencies: The most well-known application of blockchain is cryptocurrency, such as Bitcoin and Ethereum. These digital currencies use blockchain technology to facilitate secure and decentralized peer-to-peer transactions.

2. Supply Chain Management Blockchain can be used to track the movement of goods along the supply chain, providing transparency and traceability. This helps to prevent counterfeiting, reduce fraud, and improve efficiency.

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.

PLACEMENT RECORDS (2021-2022)

CAYm1 2021 -22

S.No	Name of the Student	Enrolment No.	Employee Name	Appointment No.
01	MONISHA J	812818104030	ATNA TECHNOLOGY PRIVATE LIMITED	May-23
02	BHARATHI M	812818104011	CAPGEMINI	Jan-23
03	MAHAMOD THAMIMUL ANSARI S	812818104028	T-MACHINE SOFTWARE SOLUTIONS	Jan-23
04	RETHINAMANI M	812818104033	TCS	Jun-22
05	MONISH S	812818104029	INFOSYS	Aug-22
06	ABDUL RAHIM H	812818104001	ALTURIST	Nov-22
07	VIGNESHWARAN S	812818104042	QUADGEN	Oct-22
08	VIN REMEN RENOLDO A	812818104044	ELKOI SOFTWARE SOLUTIONS	Aug-22
09	YAKSHANA K	812818104048	SYZLR-KARAIKAL	Nov-22
10	SOUNDAR RAJ S	812818104038	APPCAKE	Mar-23
11	AKILESH A	812818104004	RRD	Jun-22

PLACEMENT RECORDS (2021-2022)

12	SATHEESH KUMAR K	81281804036	OCTC-IT SOLUTION,KARAIKUDI	Dec-22
13	ABIRAMI M	812818104002	CRUD SOLUTION	22-Nov
14	ANNAMALAI A	812818104005	CRUD SOLUTION	22-Nov
15	ARUL SELVI C P	812818104007	CRUD SOLUTION	22-Nov
16	DHARANI V	812818104016	CRUD SOLUTION	22-Nov
17	MANJULA K	812818104024	CRUD SOLUTION	22-Nov
18	AKILA P	812818104003	OVERSEAS CYBER TECH. PVT. LMT.	22-Aug
19	BALAMANI T	812818104010	XPLORIA , DEVELOPER	23-May
20	ARAVINDAN T	812818104006	VR DELLA	22-Oct
21	BALAMANI T	812818104010	VR DELLA	22-Oct
22	BHUJA SRI K	812818104012	VR DELLA	22-Oct
23	BRINTHA R	812818104014	VR DELLA	22-Oct
24	HARSHINIPRIYA M	812818104701	VR DELLA	22-Oct
25	MARIMUTHU M	812818104025	PNB HOUSING FINANCE LTD	23-May
26	DEEPA R	812818104015	VEBBOX SOFTWARE SOLUTION	22-Nov
27	GOMATHI K	812818104018	VEBBOX SOFTWARE SOLUTION	22-Nov
28	KOKILA D	812818104021	VEBBOX SOFTWARE SOLUTION	22-Nov
29	KRISHNAVENI K	812818104022	VEBBOX SOFTWARE SOLUTION	22-Nov
30	VINITHA RANI J	812818104043	VEBBOX SOFTWARE SOLUTION	22-Nov

STUDENTS ACHEIVMENTS

Our students have won Overall winner trophy in M.A.M College of Engineering (Dept of CSE)

Mehar Jabeen & Abith Hussain have won First Prize in Paper Presentation at M.A.M College of Engineering(Dept of IT)

Jothiiswariya has won Second Prize in Paper Presentation at M.A.M College of Engineering (Dept of IT)

Lydia Joice has won Second Prize in Debugging at M.A.M College of Engineering (Dept of IT)

Our students have Participated in various events at M.A.M College of Engineering (Dept of IT)

STUDENTS ACHEIVMENTS

Our students have participated and own Overall winner trophy in M.A.M College of Engineering (Dept of IT)

Martin & Abinesh have won First Prize in Project Expo at Indra Ganesan College of Engineering.

Deepthi & Rajalakshmi have won First Prize in Paper Presentation at Indra Ganesan College of Engineering.

Our students have won Overall Trophy in Bishop Heber College BootFest.

Vemberasan & Kalai have won First Prize in UI&UX design at Anna University BIT campus,Trichy.

Vemberasan has won First Prize in UI&UX design at Mount Zion College of Engineering.

Sugasriya has won First Prize in Essay Writing in Sathiyasolai .

Our students have won Various Prices in Alagappa University,Karaikudi

Our students have participated in various events at Kings College of Engineering.

Our students have participated and own various prizes at National College of Engineering

Our students have won in various events at Jamal Mohamed College

INTRA COLLEGE EVENTS

Annual Day

38th Anuual Day was celebrated with all our MCE students

INTRA COLLEGE EVENTS

Annual Day

INTRA COLLEGE EVENTS

MCE'97 Silver Jubilee

Celebrated 25 year of Success and Excellence of our college

INTRA COLLEGE EVENTS

Smart India Hackathon

Showcase of Students Creativity, Innovation, Real-Time problem solving

MCE ROTARY CLUB

Drug Abusive Awareness Programme

Aimed towards minimizing the abuse of drugs & alcohol

MCE ROTARY CLUB

Drug Abusive Awareness Programme

CSE FACULTY SEMINAR

Seminar on Virtual Reality

CSE FACULTY SEMINAR

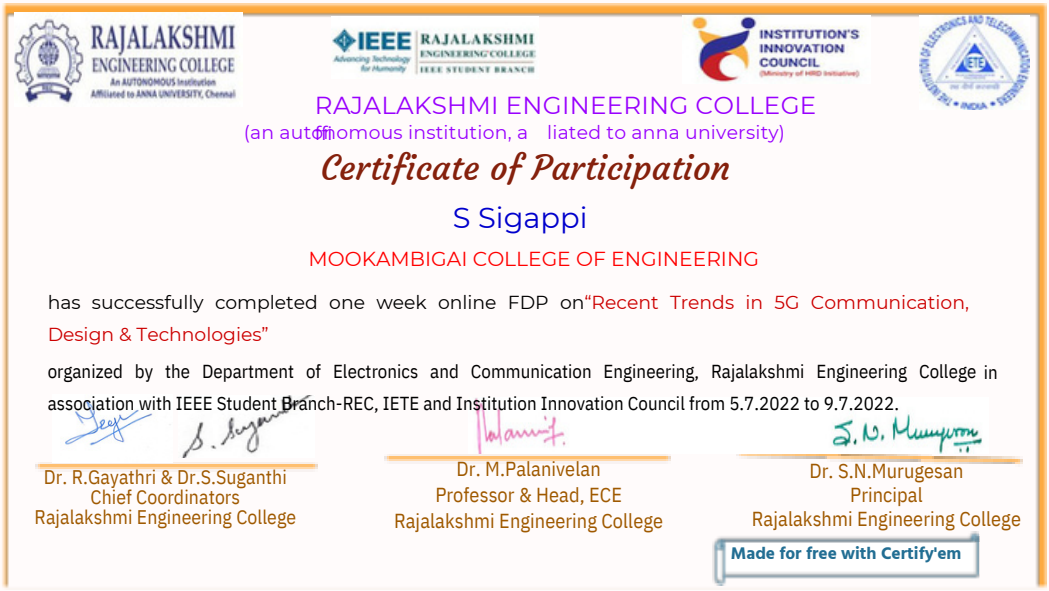
Seminar on 5g Technology

INDUSTRIAL VISIT

Our department 52 students have visited

VR Della IT Services, Elcot IT park, Navalpattu,Trichy

FACULTY ACHEIVEMENTS



RAJALAKSHMI ENGINEERING COLLEGE
(an autonomous institution, a liated to anna university)

Certificate of Participation

S Sigappi

MOOKAMBIGAI COLLEGE OF ENGINEERING

has successfully completed one week online FDP on"Recent Trends in 5G Communication, Design & Technologies"

organized by the Department of Electronics and Communication Engineering, Rajalakshmi Engineering College in association with IEEE Student Branch-REC, IETE and Institution Innovation Council from 5.7.2022 to 9.7.2022.

Dr. R.Gayathri & Dr.S.Suganthi
Chief Coordinators
Rajalakshmi Engineering College

Dr. M.Palanivelan
Professor & Head, ECE
Rajalakshmi Engineering College

Dr. S.N.Murugesan
Principal
Rajalakshmi Engineering College

Made for free with Certify'em

Certificate No. 2022-PDPOM-09/1140

National Institute of
Technical Teachers Training and Research, Chennai
(Ministry of Education, Government of India)

Certificate of Participation

This is to certify that
SIGAPPI S

Assistant Professor in Computer Science and IT
Mookambigai College of Engineering
Pudukkottai , Tamil Nadu

Participated in the Professional Development Programme on
' Data Communication and Networking '

conducted by this Institute from **09/05/2022** to **13/05/2022** **(One Week)**
through Online Mode

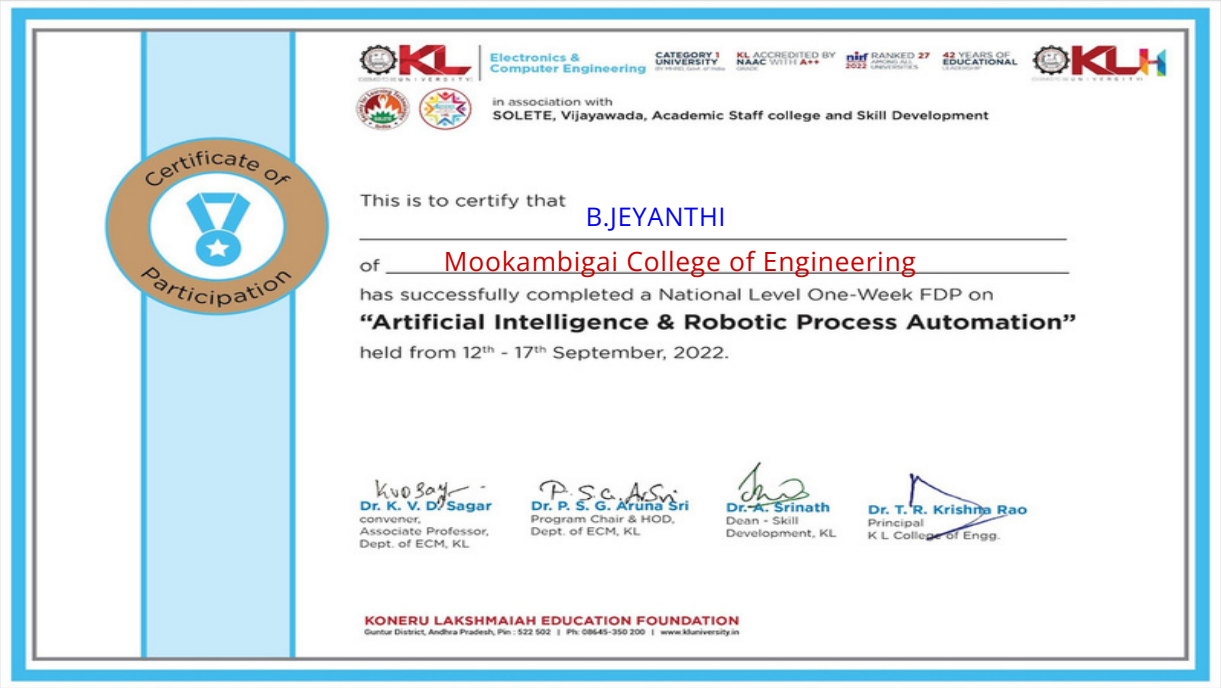
duly sponsored by the organisation / self

13/05/2022

Course Coordinator

Director

FACULTY ACHEIVEMENTS



Electronics & Computer Engineering

in association with
SOLETE, Vijayawada, Academic Staff college and Skill Development

Certificate of Participation

This is to certify that B.JEYANTHI

of Mookambigai College of Engineering

has successfully completed a National Level One-Week FDP on

"Artificial Intelligence & Robotic Process Automation"

held from 12th - 17th September, 2022.

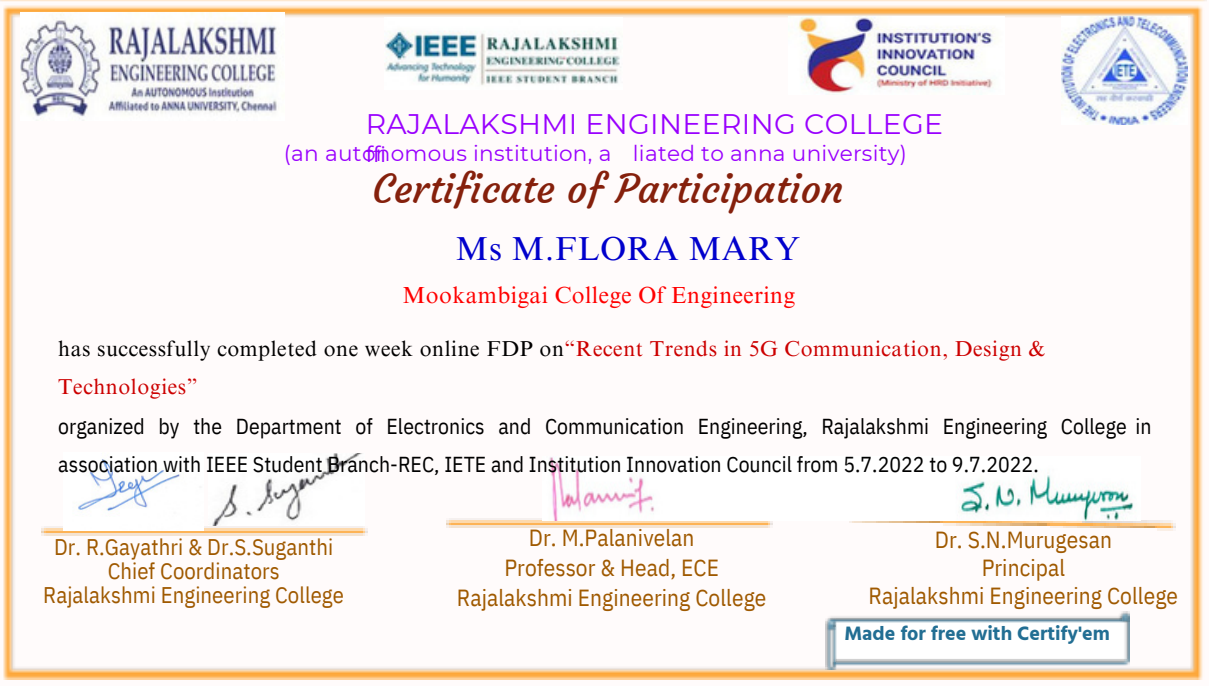
Dr. K. V. D. Sagar
convener,
Associate Professor,
Dept. of ECM, KL

Dr. P. S. G. Aruna Sri
Program Chair & HOD,
Dept. of ECM, KL

Dr. A. Srinath
Dean - Skill Development, KL

Dr. T. R. Krishna Rao
Principal
K L College of Engg.

KONERU LAKSHMAIAH EDUCATION FOUNDATION



RAJALAKSHMI ENGINEERING COLLEGE
An AUTONOMOUS Institution
Affiliated to ANNA UNIVERSITY, Chennai

IEEE RAJALAKSHMI ENGINEERING COLLEGE IEEE STUDENT BRANCH

INSTITUTION'S INNOVATION COUNCIL (Ministry of HRD Initiative)

IETE

RAJALAKSHMI ENGINEERING COLLEGE
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Certificate of Participation

Ms M.FLORA MARY

Mookambigai College Of Engineering

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Dr. R.Gayathri & Dr.S.Suganthi
Chief Coordinators
Rajalakshmi Engineering College

Dr. M.Palanivelan
Professor & Head, ECE
Rajalakshmi Engineering College

Dr. S.N.Murugesan
Principal
Rajalakshmi Engineering College

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FACULTY ACHEIVEMENTS

FACULTY DEVELOPMENT PROGRAM
ON
"OUTCOME BASED EDUCATION AND NBA ACCREDITATION"

CERTIFICATE OF PARTICIPATION

This is to certify that RAJESH V of Mookambigai College of Engineering has successfully completed the AICTE Margdarshan Scheme FDP on "Outcome based Education and NBA Accreditation" organized by Department of Electronics and Communication Engg., C.V. Raman Global University, Bhubaneswar, from 26th to 30th September 2022

Prof. (Dr.) Priyadarshi Kanungo
Dean Engineering, CGU

Prof. (Dr.) Prabodh Kumar Sahoo
Coordinator and Head, ECE Dept., CGU

RAJALAKSHMI ENGINEERING COLLEGE
(an autonomous institution, affiliated to anna university)

Certificate of Participation

RAJESH V

Mookambigai College Of Engineering

has successfully completed one week online FDP on"Recent Trends in 5G Communication, Design & Technologies"

organized by the Department of Electronics and Communication Engineering, Rajalakshmi Engineering College in association with IEEE Student Branch-REC, IETE and Institution Innovation Council from 5.7.2022 to 9.7.2022.

Dr. R.Gayathri & Dr.S.Suganthi
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Rajalakshmi Engineering College

Dr. S.N.Murugesan
Principal
Rajalakshmi Engineering College

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FACULTY ACHEIVEMENTS

RAJALAKSHMI ENGINEERING COLLEGE
An AUTONOMOUS Institution
Affiliated to ANNA UNIVERSITY, Chennai

IEEE RAJALAKSHMI ENGINEERING COLLEGE IEEE STUDENT BRANCH

INSTITUTION'S INNOVATION COUNCIL (Ministry of HRD Initiative)

IETE THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS INDIA

RAJALAKSHMI ENGINEERING COLLEGE
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Certificate of Participation

Mr. T.JAHIR HUSSAIN

Mookambigai College of Engineering

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Principal
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IEEE RAJALAKSHMI ENGINEERING COLLEGE IEEE STUDENT BRANCH

INSTITUTION'S INNOVATION COUNCIL (Ministry of HRD Initiative)

IETE THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS INDIA

RAJALAKSHMI ENGINEERING COLLEGE
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Mrs.Y.Suganya

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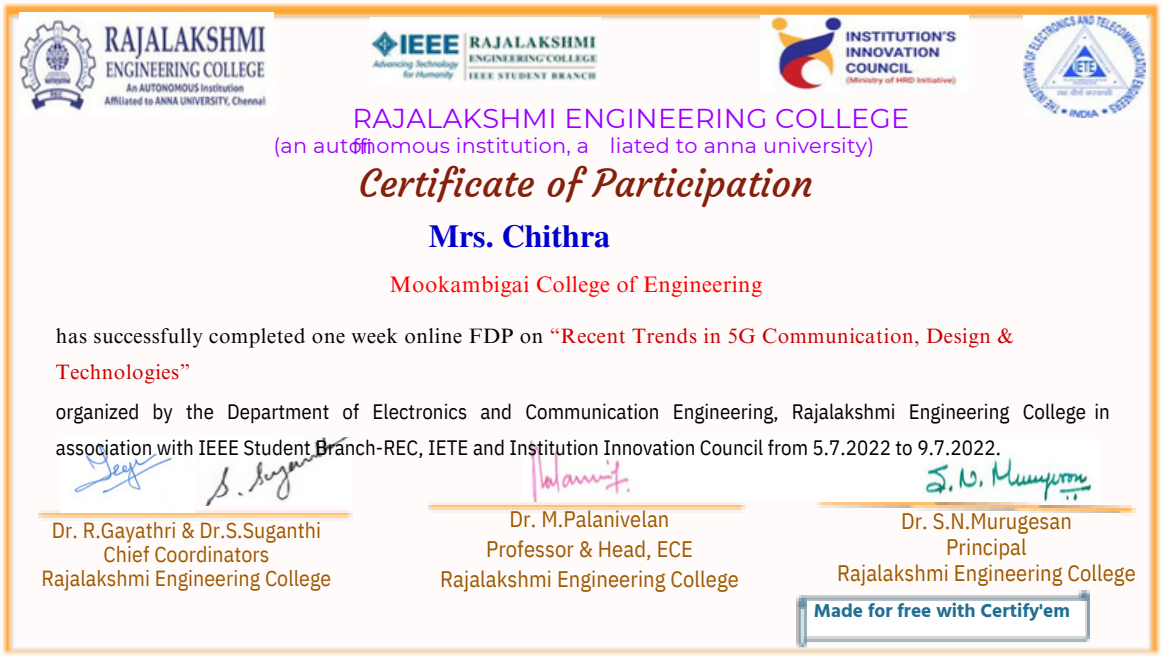
FACULTY ACHEIVEMENTS



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Mrs. Chithra

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Chief Coordinators
Rajalakshmi Engineering College

Dr. M.Palanivelan
Professor & Head, ECE
Rajalakshmi Engineering College

Dr. S.N.Murugesan
Principal
Rajalakshmi Engineering College

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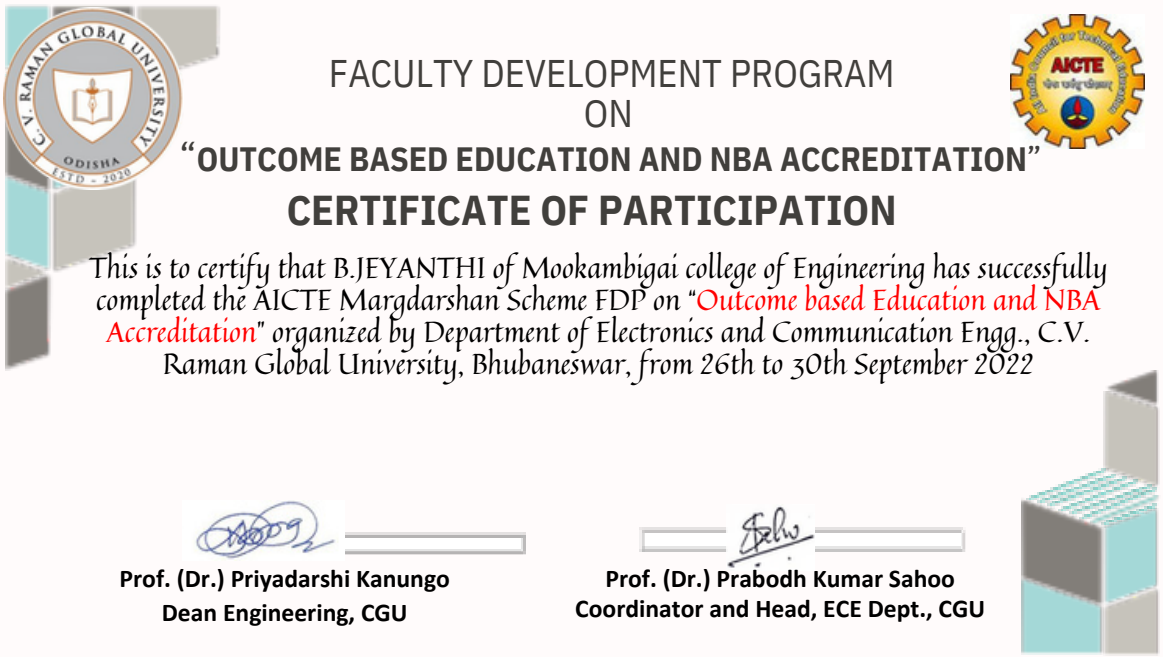

C.V. RAMAN GLOBAL UNIVERSITY ODISHA ESTD - 2020

AICTE

FACULTY DEVELOPMENT PROGRAM
ON
"OUTCOME BASED EDUCATION AND NBA ACCREDITATION"

CERTIFICATE OF PARTICIPATION

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Prof. (Dr.) Priyadarshi Kanungo
Dean Engineering, CGU

Prof. (Dr.) Prabodh Kumar Sahoo
Coordinator and Head, ECE Dept., CGU

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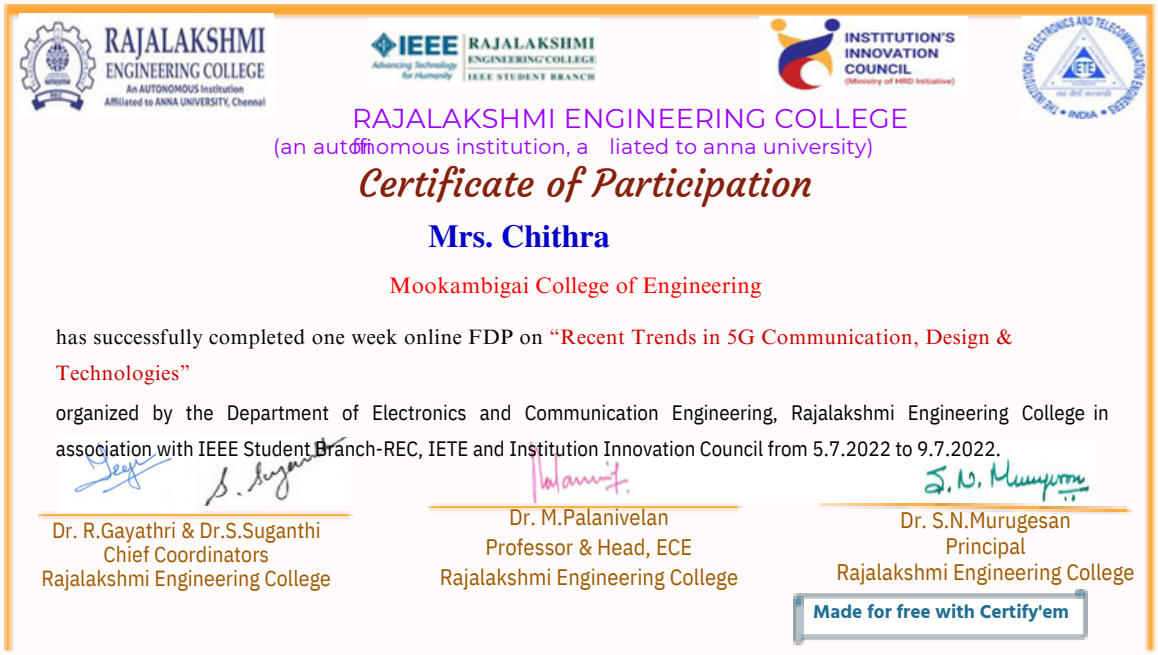

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Mrs. Chithra

Mookambigai College of Engineering

has successfully completed one week online FDP on "Recent Trends in 5G Communication, Design & Technologies"

organized by the Department of Electronics and Communication Engineering, Rajalakshmi Engineering College in association with IEEE Student Branch-REC, IETE and Institution Innovation Council from 5.7.2022 to 9.7.2022.

Dr. R.Gayathri & Dr.S.Suganthi
Chief Coordinators
Rajalakshmi Engineering College

Dr. M.Palanivelan
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Dr. S.N.Murugesan
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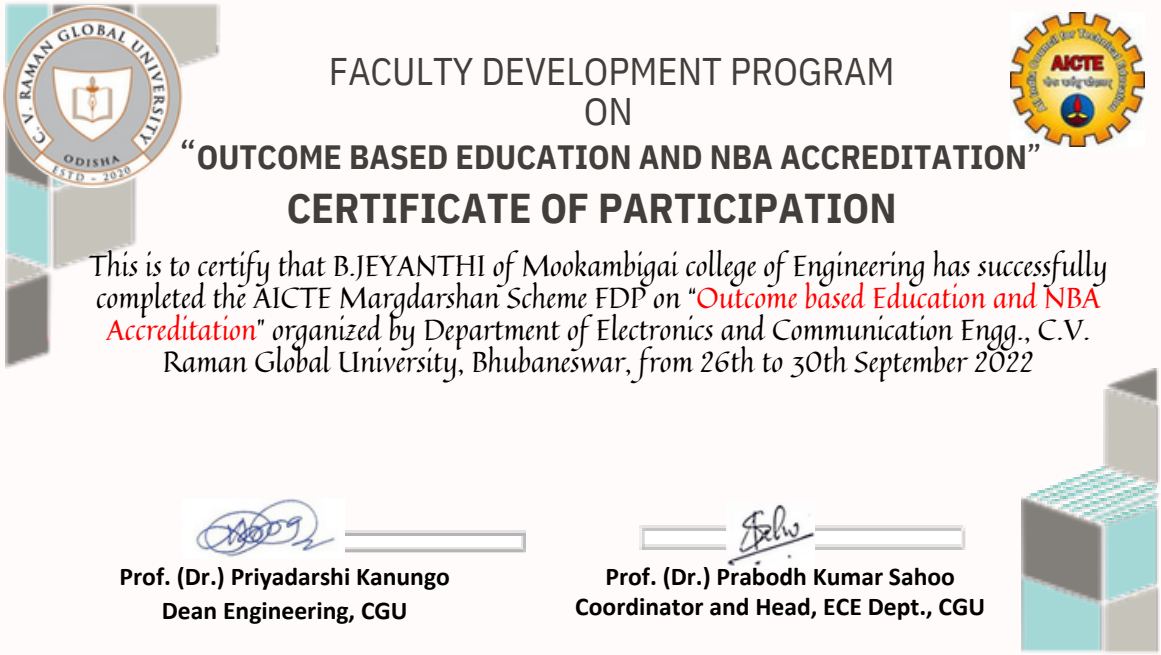

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JOURNAL PUBLICATION

Y.Suganya, Dr.Sumathi ganesan,Dr.P.Valarmathi, ”Deep Learning Neural Network image classification of Ultrasound overian cysts”, Journals of Xidian University, 2022

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