




AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Nizara Educational Campus, Muthapudupet, Avadi IAF, Chennai – 600 055.
Ph: 044 – 26842627 / 26842086

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

NAME & INITIALS	Dr. A. S. SALMA BANU	
DESIGNATION	PROFESSOR & H.O.D.	
EDUCATIONAL QUALIFICATION	B.E., M.E., Ph.D.,	
EXPERIENCE	28 YEARS	
DATE OF JOINING	21-9-2000	
EMAIL ID	as.salmabanu@aalimec.ac.in	
AREA OF SPECIALISATION	COMMUNICATION SYSTEMS	

EDUCATIONAL QUALIFICATION

DEGREE	BRANCH / SPECIALIZATION	INSTITUTION	UNIVERSITY	YEAR
Ph.D.,	INFORMATION AND COMMUNICATION		ANNA UNIVERSITY	2019
ME	COMMUNICATION SYSTEMS	CRESCENT ENGG COLLEGE	ANNA UNIVERSITY	2006
BE	ECE	VMKV ENGG COLLEGE, SALEM	MADRAS UNIVERSITY	1996

PROFESSIONAL MEMBERSHIPS

ISTE LIFE MEMBERSHIP - LM 134469

IAENG MEMBERSHIP

IRED – ASSOCIATE MEMBER

IAOP – ASSOCIATE MEMBER

FDP ATTENDED
Attended AICTE – MARGDARSHAN FDP on OBE & NBA PROCESS at RAJALAKSHMI ENGINEERING COLLEGE from 16 th – 20 th DEC 2019.
ONLINE-FDP on Significance of Course Files & How to use it for PDCA in OBE conducted on June 4, 2020.
ONLINE-FDP on “Direct & Indirect Measures of Assessment for Attainment of COs & POs” conducted on 8th June 2020.
Attended ONLINE-FDP on “Faculty Role in SAR” organized by Rajalakshmi Engineering College AICTE – MARGDARSHAN, conducted on 10th June 2020.
Attended ONLINE-FDP on “How to Write & Publish a Good Technical Paper” organized by Rajalakshmi Engineering College AICTE – MARGDARSHAN, conducted on 12th June 2020.
ONLINE-FDP on “How Teachers can make a Difference” conducted by Teaching Learning Centre of IIT – MADRAS from 15th to 19th of June 2020.
ONLINE-FDP on “7 QC TOOLS for Educational Excellence” conducted by Quality Circle Forum of India Chennai Chapter from 22nd to 26th of June 2020
Attended AICTE Margdarshan FDP on “GUIDED WALK-THROUGH TO NBA-SAR” From 27th July to 1st Aug 2020 organized by Rajalakshmi Engineering College
Actively Participated and Successfully Completed Online Spoken FDP on Advanced Communication Laboratory in Association with Industries from 20.07.2020 to 25.07.2020 organized by the department of Electronics & Communication Engineering of PSNA College of Engineering and Technology, Dindigul.
One Week Online Certificate Course on DIGITAL TEACHING TECHNIQUES organized by ICT Academy 24 January 2022 to 28 January 2022.
Online Faculty Development Program/Short-term Training Program on Advanced Optimization Techniques and hands-on with MATLAB/SCILAB jointly organized during 8th August to 19th August, 2022. This program is endorsed by NBA/AICTE/UGC.
5-Day Online International FDP on "Current Trends in Information Technology" conducted by MEASI Institute of Information Technology from 26.09.2022 to 30.09.2022.
Attended Five days Online Faculty Development Program on Recent trends on "Digital Image Processing Techniques" from 05/12/2022 to 09/12/2022 conducted by Department of Electronics and Communication Engineering, Sreenivasa Institute of Technology and Management Studies, Chittoor.
Tamil Nadu State Government Sponsored Five Day Faculty Development Programme on “Research Opportunities of Soft Computing Technique in Engineering Applications” from 09.01.2023 to 13.01.2023 organized by the Faculty Development Training Centre in association with Department of Electrical and Electronics Engineering & Department of Computer Engineering, Government Polytechnic College, Gandarvakottai through Online Mode. E – Certificate No: ROSCTEA0901PO31
One Day Faculty Development Program on “Open Stack Private Cloud Setup” organized by Department of AR & VR, Computer Science and Engineering Programme, SIMATS School of Engineering, SIMATS, Thandalam, Chennai – 602 105, Tamil Nadu on 07 th Feb 2023.
Five days Faculty Development Program on Education 5.0 from 15.05.2023 to 19.05.2023 organized by the department of Information Technology in association with Academic Staff College, Dr. M.G.R Educational and Research Institute, Chennai – 95.
Successfully completed Master class on Internet of Things at PANTECH e Learning PVT LTD., from 12.07.2023 to 12.08.2023. E – Certificate No: PEL_PART_IoT_0382.

5-Days International FDP on Unleashing Emerging Research Trends and Advancements in Computer Science 2.0, organised by School of Computer Science and Engineering, VIT-AP University, Amaravati from 24th July to 28th July 2023.
Two day National Faculty Development Programme on Research Writing & Publication Process created and powered by centre for Research and Training, National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu on 25 & 26 November 2023.
Attended Faculty Development Program on Intellectual Property Right & Patent Drafting from 4 th January 2024 to 12 th January 2024, ASSOCIATION OF INDIAN UNIVERSITIES & AMET UNIVERSITY.
Attended Five Days FDP IN OPTICAL COMMUNICATION AND NETWORKS AT ANNA UNIVERSITY
OPTICAL COMMUNICATION AND NETWORKS AUG 23 AND 24 AT VELAMMAL ENGG COLLEGE

WORKSHOPS ATTENDED
Online workshop on Universal Human Value on the theme “Inculcating Universal Human Values in Technical Education” during 14-18 December, 2020 as organized by All India Council for Technical Education(AICTE).
Automatic Speech Recognition at MIT in the year 2011.
Skill Development Program on the topic “How to Become a Cloud Architect” Organized by Institute for Engineering Research and Publication (IFERP) on 05 TH July 2023.
one-day online workshop on Empowering Communication: AI enabled conversations for future organized by the faculty of English, Basic Science & Humanities, NSRIT on 22 nd July 2023.
Skill Development Program on topic “Learn Strategic Decision-Making for Cyber-Resilient Future “ Organized by Institute for Engineering Research and Publication (IFERP) on 04 TH October 2023.
Attended the PROPOSAL WRITING WORKSHOP conducted online by PALS, on 18th December 2023.
One day online workshop titled Eddy Covariance Technique for Ecosystem Studies, conducted by IIRS on 22-12-2023.
One-day online workshop on Empowering Communication: AI enabled conversations for future organized by the faculty of English, Basic Science & Humanities, NSRIT

SEMINARS ATTENDED
Webinar and live demonstration of “Electro chemical Bio Sensors for Food and agriculture” by Dr.Martin Peacock (Honorary Senior Lecturer at Swansea University, Wales, UK, Director of Zimmer & Peacock Norway) on 27th, April 2022 Organized by SSN Institutions, Kalavakkam, Chennai-603110, in association with Zimmer and Peacock (a sensor manufacturing industry in US, UK and Norway) and Technando Technologies LLP (New Delhi, India).
TUV SUD’S Complimentary Hybrid Event, Cyber Security in the Digital Eco System on 14th July 2022.
Webinar : “ Design of IQAC to attain Effective Accreditation “Date : Aug 23,2022 , ISDE Certificate No : 204197.

Webinar on “HOW TO DO QUALITY PUBLICATIONS” conducted by the Department of Computer Science & Engineering, AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING on 27th August, 2022.

Guest Lecture on the topic “HOW TO FILE A PATENT” Organized by Institute for Engineering Research and Publication (IFERP) on 28TH August 2023.

WORKSHOPS & SEMINARS ORGANIZED

Organized Intellectual Property Rights (IPR) Awareness Programme by National Intellectual Property Awareness Mission (NIPAM) & Indian Patent Office (IPO) on August 14, 2023 by Dr. SAFIA NAVEED.S B.TECH; M.E; PHD Woman Scientist -Under WISE KIRAN IPR, Technology Information Forecasting and Assessment Council (TIFAC) Department of Science and Technology (DST), NewDelhi Registered Patent Agent IN/PA-4586 Resource Person under – National Intellectual Property Awareness Mission (NIPAM 2.0) & Indian Patent Office (IPO), Patent Consultant.

Organized a two-day workshop on the Internet of Things for our Second Year ECE and First Year ECE Students on the 26th and 27th of October 2023 and 31st of October, 1st & 2nd of November 2023.

Organized a Seminar on Abroad Education – Your Gateway to Rewarding Future on 12/10/2023 by Imlms.

PUBLICATION DETAILS

Experimental Analysis Using Automated Industrial Sensor with Integrated Distributed Data Fault in Distributed Sensor Networks, AS Banu, J Baskaran - Sensor Letters,16 (7), 529-538,2018.

Three Juncture Based Issuer Driven Pull Out System in a Distributed Servers, Salma Banu AS, Fathima Beevi M, Gulnaaz Fathima J, Hajira Fathima A J, Journal of Emerging Technologies and Innovative Research 5 (9), 1071-1076.

Design and Implementation of Blood Glucose Monitoring Using 450 nm Wavelength by NIR Spectroscopy, Salma Banu AS, Journal of Emerging Technologies and Innovative Research 6 (3), 329-33.

Earlier Identification of Parkinson's Disease Using Deep Learning Algorithm - An Evolutionary Approach in Biomedical Application,Salma Banu AS,Journal of Emerging Technologies and Innovative Research 6 (4), 134-137.

A Context-Based Smart Metropolitan Transport Monitoring System, Salma Banu AS Journal of Emerging Technologies and Innovative Research 6 (5), 228-232.

In-Situ Face Mask Detection Using Deep Learning Technique, Salma Banu AS Journal of Emerging Technologies and Innovative Research 6 (6), 343-346.

Deep Learning-Based Fruit Detection and Freshness Grading, Salma Banu AS Journal of Emerging Technologies and Innovative Research 6 (6), 339-342.

Artificial Eye for Blind to Read Translate and Navigate Salma Banu AS, Fariha Parveen S A, Fahima Begum M, Jabeen A, Journal of Emerging Technologies and Innovative Research 5 (9), 951-955.

Energy-Aware Approach for Radio Communications Salma Banu AS International Journal on Engineering Technology and Sciences. 8 (11), 1-5.

Power Control Algorithms in Massive MIMO Cognitive Radio Networks Salma Banu AS International Journal on Engineering Technology and Sciences Volume 9 Issue 3 Pages 10-13 .

Power Control Algorithms in Massive MIMO Cognitive Radio Networks Authors Salma Banu AS Publication date 2022/3 Journal International Journal on Engineering Technology and Sciences Volume 9 Issue 3 Pages 10-13.
Spatial Spectrum and Energy Efficiency of Random Cellular Networks Authors Salma Banu AS Publication date 2022/6 Journal International Journal on Engineering Technology and Sciences Volume 9 Issue 6 Pages 1-5
"Journal of Recent Research in Engineering and Technology" titled "Distributed Fault-Tolerant Classification In Wireless Sensor Networks"

PATENT DETAILS

A Patent entitled “LOCATION INDEPENDENT SUN POSITION IDENTIFICATION SYSTEM
EMPLOYING CNN BASED IMAGE PROCESSING” Published on 09/12/2022.
Ref No: 202241069341

NPTEL COURSES ATTENDED

Successfully completed a 12 weeks NPTEL online certification Course on “Accreditation and
Outcome Based Learning” (Elite Certification) from July 2023 to October 2023. (NPTELAICTE
FDP)

CONFERENCE DETAILS

“IEEE SPONSORED 8th International Conference on Computation of Power , Energy, Information & Communication “ ICCPEIC-2019 in APEC, Chennai
“IEEE SPONSORED 7th International Conference on Computation of Power , Energy, Information & Communication “ ICCPEIC-2018 in APEC, Chennai
International conference IIASE-2017.
Participated 2nd International Conference on “ Sustainable Materials and Technologies for Bio and Energy Applications SMTBEA-2022”, and attended the lectures by Dr. Ramesh Chandra Mallik, IISc Bangalore and Dr. Kentaro Kutsukake RIKEN, Japan on 15th, July 2022 Organized by SSN Institutions, Kalavakkam, Chennai-603110, in association with Elavenil Science Association & Indian Science and Technology Association.
Participated the 2nd International Conference on “Sustainable Materials and Technologies for Bio and Energy Applications SMTBEA-2022”, and attended the lectures by Dr. Andrei Smirnov , Semiconductor Technology Research , Russia, and Dr.Muhesh Jewarria, NPL, CSIR on 15th, July 2022 Organized by SSN Institutions, Kalavakkam, Chennai-603110, in association with Elavenil Science Association & Indian Science and Technology Association.

ACHIEVEMENT DETAILS
Woman Achiever Award in Teaching field for the year 2018 by Kuppusamy Educational Trust, Loyala College, Nungambakkam.