

CURRICULUM VITAE

Dr K S Balamurugan

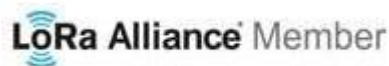
Dept of ECE

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Documents link: https://drive.google.com/drive/folders/1KEU_1E6CFG4v2I0HqwRue3Py6DjqboUe?usp=sharing

Identity:

Name	Dr.K.S.Balamurugan	Present Address:
Father Name	K.Sathiah	Lakshmi Nagar, Gorantla,
Date of Birth & Age	29.07.1979, 43	Guntur, AP
Gender & Marital Status	Male , Married	Ph:+91-98659 36932
Nationality , Religion, Community	Indian, Hindu, BC	Email: profksbala@gmail.com
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Scopus Link: https://www.scopus.com/authid/detail.uri?authorId=57147186000		
Research Gate link: https://www.researchgate.net/profile/Balamurgan_Sathiah		
Linked in Link: https://www.linkedin.com/in/dr-k-s-balamurugan-sathiah-11162a150/		

Educational Qualification:

Category	Specialization	Name of the Institution / University / Board / Issuing Authority	Year of Passing	% of Marks & Class	Mode of Study
Ph.D.	ICE-Wireless Networks	Anna university, Chennai. SRM Valliammai Engineering College, Chennai.	2018	NA	Part Time
P.G.	ME-Applied Electronics	Mohd.Sathak Engineering College, Keelakarai. (Anna university, Chennai).	2006	71% First Class	Full Time
	MBA-System	IDE, Madras University, Chennai	2010	60%	Distance Mode
U.G.	BE-ECE	Syed Ammal Engineering College, Ramnad. (MK University, Madurai).	2002	76%, First with Distinction	Full Time
Diploma	DC Tech Computer Science	Venkateswara Plytechnic, Pudukottai. (State Board, Tamilnadu)	1999	87%, First with Honors	Full Time
SSLC	State Board	Pallivasal Hr.Sec School, Mudhukulathur.	1994	65%	Full Time

Certificate Courses:

S.NO	Name of the Course	Year of Passing	Name of the Institution / University / Issuing Authority	% / Class / CGPA / Grade obtained (if applicable)
01	Python for Data Science	2022	NPTEL	Elite
02	Advanced IoT	2018	NPTEL	60%
03	Latex	2019	IIT BombayX	51% (C-Grade)
04	Machine Learning with Python	2020	IBM	NA

Teaching Experience in Engineering Colleges (Total: 18+ years)

SNo	Name of the Institution	Position / Title	Experience
1	Kapaga vinayaga College of Engineering & Technology, Chengalpattu	Professor & Head.	From 22.05.2023
2	Vignan's Lara Institute of Technology & Science, Guntur, AP.	Professor & CEO, MSME	2 years (27.09.21 to 18.05.2023)
3	Sasi Institute of Technology and Engineering, Tadepalligudem	Associate Professor	11 Months (15.10.20 to 14.09.21)
4	Bharat Institute of Engineering and Technology, Hyderabad.	Admin & HOD, Associate Professor	2 years 8 months (27.12.17 to 04.09.20)
5	Madurai Institute of Engineering & Technology, Madurai, Tamilnadu.	HOD & Assistant professor	6 years 6 months (02.06.11 to 24.12.17)
6	St.Michael College of Engineering & Technology, Kalayarkoil. Sivagangai, Tamilnadu.	Assistant professor	5 years 11 months (17.06.05 to 20.05.11)
7	Pandian Saraswathi Yadava Engineering College, Sivagangai, Tamilnadu.	Lecturer	2 years 6 months (17.06.02 to 05.11.04)

Responsibilities held: @ Collage level

SNo	Name of the position	Name of the board Committee/	Outcome
01	CEO	Incubation Centre	MSME Recommendation, 4 Lakhs GoC Received. Startup initiated.
02	President	IIC, MHRD.	Established IIC, EDC, NISP Cell, KAPILA & KARMA.
03	SPOC	Smart India Hackathon,	Internal Smart India Hackathon conducted. 1 prize State level, Telangana.
04	Coordinator	UBA	Rs.4.5 Lakhs received
05	Coordinator	IQAC	NAAC C3. Got A+
06	Coordinator	Remote Centre	Established Nodal Centre, IIITH VL & IITB.
07	Member	R&D	LoRa Alliance, MoU.
08	In-charge	Centre of Excellence	Established IoT Lab
09	Coordinator	Extension Activities.	NSS, NCC Team visited -Field survey. And Camp arranged.
10	Admin i/c	Admin & HoD	Day by Day activities. Department Responsibilities.

Journal Publications: 18

Sl.No.	Title of the Paper	Publication Date	Journal name, Standard, and ISSN no
1	Conversion of seaweed waste to biochar for the removal of heavy metal ions from aqueous solution: A sustainable method to address eutrophication problem in water bodies	Accepted.	Environmental Research, SCI
2	Influence of Sn ⁴⁺ substitution on the ZnO crystal structure and their enhanced fibre optic gas sensing and photocatalytic degradation performance	July,2023	<i>Physica B: Condensed Matter</i> SCI
3	Development of C3N4 embedded BIZWOB heterostructure for improved toxic cr	July, 2023	Chemical Physics Letter, SCI
4	Designing Novel Routing Algorithms for Wireless Mobile Ad-Hoc Networks to Improve Their Enactment	May, 2023	International Journal of Intelligent Systems and Applications in Engineering, Scopus
5	Design a Wearable IoT Devices using pressure Sensors for fall avoidance by Human Movement Monitoring system	Dec,2020	Solid State Technology, Scopus.
6	Performance and Estimation Error analysis for L-TAS/SC Receiver over KG Fading Channels.	01.06.2020 1 st Author	International Journal of Advanced Science and Technology, Scopus
7	Agriculture Resources for Plant-Leaf Disease Using Deep Learning Techniques	28.05.2020 1 st Author	International Journal of Advanced Science and Technology, Scopus
8	A Zno Nanorods Based Enzymatic Glucose Biosensor By Immobilization Of Glucose Oxidase On A Chitosan Film	March, 2020 3rd Author	Obesity Medicine, Elsevier, Scopus
9	LoRa-IoT Based Self-Powered Multi-Sensors Wireless Network For Next Generation Integrated Farming	Oct,2019 1 st Author	International journal of scientific & technology research, Scopus
10	Light-weight Process variation-aware instruction distribution algorithm for Embedded GPUs	April,2018 1 st Author	IJSRST, UGC Approved Journal No : 64011
11	Log Likelihood Ratio Based Quantizer design for target tracking in wireless sensor networks	Feb,2018 1 st Author	IJSRST, UGC Approved Journal No : 64011
12	An Effective Energy Power Management Using CDCH Routing Algorithm in WSN	May, 2018, 3rd Author	Journal of Pure and Applied Mathematics- Scopus(2018)
13	Consumption of Low Power Using CMOS VLSI Design in Modern Trends	June,2018 2 nd Author	IJRECE, Osmania University 3 rd International Conference. UGC.
14	SON based Simple Light-weight Seamless Handover Rapid Re-authentication Protocol for Tactical Battlefield Wireless Communication System	Sep,2016 1 st Author	Asian Journal of information technology. Scopus, ISSN:1993-5994
15	“Six Sense Seamless Handover Protocol for 5G Subscribers Using Artificial Swarm Intelligence	June, 2016 1 st Author	Advances in Natural and Applied Sciences. ISSN: 1998-1090
16	“Fast and Secure Intelligence Re-authentication Mechanism for Next Generation Subscribers	1 st Author Nov,2016	International Control Theory and applications. ISSN: 0974-5572

17	An Optimized Quality of Service Elements Enabling Technique for Next Generation Wireless Cellular Communication using Artificial Immune System	Sep,2016 1 st Author	World Journal of Engineering Research and Technology, ISSN: 2454-695X
18	Fast Inter-RAT Handover Estimation for Rapid Re- Authentication using Log Likelihood Ratio Weight Factored Distribution Technique in HetNet”	Nov,2016 1 st Author	International Journal of Applied Engineering Research, ISSN :0973-4562 .

Conference Presentation: 14

Sl.No.	Title of the Paper in the Presentation	Date of Conference	Name of the Organized Institution
1	Development of quantum nanodevice for smart farming practices using machine learning with blockchain technology.	Accepted	IEEE Conference
2	AI Enable IoT-CPS Tag for Cattle care Management system	13.03.2023	Springer, NITTR Chandigarh. Scopus Indexed
3	Smart Wearable Tag for monitoring cow using Convolutional neural network and long short-term memory	03.09.2021	IEEE Xplore, RVS collage of Engineering and Technology, Coimbatore.
4	Wearable Tag for Human monitoring system	12.08.2021	Springer Conference, RVS Technical campus, Coimbatore.
5	Performance and Error Estimation Analysis of QAM with MRC Receiver for L-TAS/SC over α - μ Fading Channels.	29.07.2021	Springer Conference, Surya Engineering Collage, Erode.
6	Quality of Transmission Improvement in underwater sensor nodes using Compressive sensing	08.04.2021	IEEE Xplore, ICCMC.
7	Design a Wearable IoT Devices Using pressure Sensors for Fall avoidance by Human movement Monitoring system.	26.08.2020	VIT, Vellore.
8	Consumption of Low power using CMOS VLSI Design in modern Trends	24.06.2018	Osmania university Campus, Hyderabad
9	SON based light weight seamless handover reauthentication protocol for wireless communication system	12.03.2016	Pandian Saraswathi yadava Engineering College, Sivagangai
10	Fast Re-Authentication Mechanism for LTE-FEMTOCEL Network	14.03.2015	Pandian Saraswathi yadava Engineering College, Sivagangai.
11	Design a Multilinear regression based vertical handover algorithm for Next generation subscriber	05.04.2014	SRM Valliammai Engineering College, Chennai.
12	Fast and Secure Re-Authentication for Next Generation Networks	09.01.2013	Sasurie College of Engineering, Vijayamangalam.
13	VLSI implementation of Soft output MIMO detector based on Distributed M-Algorithm through Trellis Diagram	16.03.2011	KLN College of Engineering Technology, Madurai
	Implementation of Digital Signature based RSA Assumption	18.12.2010	Sri Eshwar College of Engineering, Coimbatore.

Book Chapter Publications: 02

Sl.No.	Title of the Book Chapter	Year of Publication	Name of Book title, Publisher
1	Deep Learning Techniques for Biomedical Image Analysis in Healthcare	05.08.20	Deep Neural Networks for Multimodal Imaging and Biomedical Applications, 31-46, 2020, IGI Global publishers.
2	Graphene-Carbon Nanotubes Nanocomposite Modified Electrochemical Sensors for Toxic Chemicals	30.08.20	Graphene-Based Electrochemical Sensors for Toxic Chemicals, 82, 211-242, 2020, Materials Research Foundations.

Patents: 08

Sl.No.	Title of the Invention / Innovative Concept / Product / Project	Details of Patent Published	Year
1	Waste Food Management system with Machine Learning Mechanism of Renewable Source of Energy	202341018630, Published	March, 2023
2	Artificial Intelligence Enabled Multiple Sensor fall care system for elders	202241052932, Published	Nov, 2022
3	Artificial Intelligence Enabled Multiple Sensor Data Wearable System for Woman Safety	202241045671, Published	Aug,2022
4	Mobile Based Application for Automatic Irrigation and Fertigation	202241020224, Published	April 2022
5	Intelligence superconductor to minimize the energy band Gap.	Published	Sep 2021
6	I-Health Care: Technologies Towards 5G Network for Intelligent Healthcare Using IoT Notification with Machine Learning Programming.	Published	July 2021
7	Smart agriculture using IoT	Published	April 2021
8	Credit Card Fraud Prevention: Intelligent Process to Credit Card Fraud Prevention Using Machine Learning	Published.	Sep 2020.

Funded Projects:

Sl.No.	Title of the Project / FDP / Workshop / Seminar	Funding Agency	Amount Sanctioned	Project Duration & Year	Remarks
2	GoC, AICTE	AICTE	INR 4,00,000	1 Year	Ongoing
3	Identification of village Issues-Survey	UBA, IITD,MHRD	Rs.50,000	01.10.2022	Completed
4	Remote HealthCare System	UBA, IITD,MHRD	Rs.100,000	12.09.2022	Hand overed
5	Identification of village Issues-Survey	UBA, IITD,MHRD	Rs.50,000	30.03.21	Completed
6	FARMGUARD -Smart Farm APP	UBA, IITD,MHRD	Rs.50,000 Rs.100,000	29.11.19 6 months	Completed
7	Identification of village Issues-Survey	UBA, IITD,MHRD	Rs.50,000	28.08.18 6 months	Completed
8	FDP/ICT-Problem Based Learning.	NITTTR Kolkata	Rs. 28400	02.12.19 to 06.12.19	66 Faculties attended.

Contributions to Institution:

SNO	Nature of work	Date	Description/Status
1	SPOC, KAVACH	April,2023	KAVACH AICTE Hackathon Organized.
2	Incubation Centre	April,2023	Established Incubation Centre, 10 Best YUKTI Project Submitted.
3	LoRa alliance	Feb, 2022	International MoU
4	Awareness Programme on Intellectual Property Rights (IPR) under National Intellectual Property Awareness Mission (NIPAM)	Feb,2022	Appreciation Certificate Received
5	Institute Innovation Council IIC, MHRD @ VLITS	July,2022	Established, 30+ Events conducted.
6	Institute Innovation Council IIC, MHRD @SITE	20.04.21	Established, 6 Events conducted.
7	Unnat Bharat Abhiyan(UBA)-SITE	14.02.21	Established, 50k Received.
8	MoU with LoRa Alliance -SITE	12.02.21	Established. 100+ members registered.
9	IIIT-H Virtual Lab-SITE	02.01.21	Established, 6 Lab conducted.
10	AICTE Vishwakarma Awards:2020-SITE	27.09.21	Final stage- listed team in AICTE booklet
11	IIT Bomboy Remote Centre Established	01.07.19	RC 1577, 2 Event Conducted
12	MoU with LoRa Alliance	15.01.19	For Research activities, Extended 1 years.
13	MoU with ACD Communication	17.10.19	For Research activities
14	MoU with JETSPIN	20.02.19	For Research activities
15	Unnat Bharath Abhiyan	15.04.18	Updating Rural Development activities.
16	Swachh Bharath Action Plan with MGNCRE	14.11.19	Award from Mahatma Gandhi National Council of Rural Education
17	AICTE Vishwakarma Awards:2019: Village	13.12.19	2 nd Round Crossed.

Membership of Professional Bodies:

Sl.No.	Name of the Professional Body	Membership Category (Member/Life Member/Fellow etc.)	Membership No.	Year of Registration
1	ISTE	Life Member	LM78891	2011
2	LoRa Alliance	Member	NA	2018
3	ISR D	Fellow	F3140901093	2018

Faculty Interaction with outside world:

Sl.No.	EVENT	Organized Institute Name	Role/ Position Held	Event Date
1	Incubation Centre Components.	Dr T Thimmaiah Institute of Technology, Bangalore.	Resource Person	24.03.2022
2	Webinar on Role of IoT Engineers in POST COVID	Kalasalingam Academy of Research and Education, Virudhunagar.	Resource Person	25.06.2020

Awards & Appreciation Certificate:

Sl.No.	Name of the award/Appreciation	Name of the Agency/bodies	Held on	Status/Remarks
1	Appreciation for SIH-2022	MoE, GoI	June, 2022	3 Team Selected for 2 nd Round
2	Appreciation for Workshop Organized	NIPAM, Indian IPR. Govt of India.	04.08.2022	College level and Coordinator appreciation Certificate- Received
3	Appreciation for Guest Speakers	Dr T Thimmaiah Institute of Technology, Bangalore.	24.03.2022	300 + participants appreciated.
4	Appreciation for Workshop Organized	NIT Warangal.	17.04.2022	College level and Coordinator appreciation Certificate- Received
5	Best Covid Campaign, HEI, MoE.	MGNCRE, HEI, MoE.	June,2021	College level and Coordinator appreciation Certificate- Received.
6	Workshop Coordinator Award for Conduction of Students Solar Ambassadors Workshop for celebrating 150 th MG birthday anniversary	IITB	02.10.20	College level and Coordinator appreciation Certificate- Received
7	Appreciation certificate for conduction of UBA Camp at Turkanguda.	Village President, Turkanguda.	02.10.18 to 04.10.18	Appreciation Certificate- Received

References:

	Reference 1	Reference 2
Name	Dr.B.Chidhambararajan	Dr K Phaneendra kumar
Designation	Principal	Principal
Organization	SRM Valliammai Engineering College, Kattankulathur, Chennai.	Vignan's Lara Institute Technology & Science, Guntur.
Contact No.	9443304768	9441063389
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Declaration:

I hereby declare that the information provided above is true and correct to the best of my knowledge and belief.

Date: 06.09.2023

Place: Chengalpattu.

Signature
(Dr. K S Balamurugan)