

FACULTY PROFILE

1. **Name** :Jacob Silva Lorraine K
2. **Designation** :Assistant Professor
3. **Department** :ECE
4. **Date of Joining** :14-05-2011
5. **Nature of Employment:**Regular
6. **Date of Birth** : 10-11-1987
7. **Unique ID (AICTE FID)** : 1-718038253
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10. **Address for communication:**H.No- 65/B, R.R.B street, Opp. Rajiv Gandhi Park,
Ashok Nagar, Eluru-534002, W.G.Dist, AP.



11. Educational Qualifications:

Qualification	Institute	University/ Board	Specialization	Year of Passing	Division/ Class
Ph.D.	University College of Engineering, JNTUK	JNTUK	Communications	Pursuing	-
PG	CBIT, Hyd.	Osmania University	Communication Engineering	2010	First division with distinction (College 1 st)
UG	Nova College of Engineering&T echnology,Jrg.	JNTUH	ECE	2008	First division with distinction (College 2 nd)
Inter/Diploma	Sri Helapuri Jr. College	Board of Intermediate Education	M.P.C	2004	First division with distinction
SSC	St. Theresa's Girls High School	Board of Secondary Education	-	2002	First division with distinction

12. Work Experience:

Teaching:8 yr 6months**Research:**1 yr10months**Industry:** NIL**Total:**10yr 4months

Name of the Organization	Designation	Date From	Date To
Sir C R Reddy College of Engineering	Asst. Professor	14-05-2011	Till date

13. Courses taught:

S.No.	Name of the subject	UG/PG
1.	Analog Communications	UG
2.	Microwave Engineering	UG
3.	FiberOptic Communications	UG
4.	Data Communications	UG
5.	Satellite Communications	PG
6.	GPS and its Applications	PG

14. Administrative Responsibilities:Till Nov 2019

S.No.	Description	College/ Department level
1.	Department Library In charge	Department level
2.	NBA Criteria 3 Co-ordinator	Department level
3.	Result analysis member	Department level
4.	Section wise examination in-charge	Department level
5.	Anti-ragging committee member	Department level
6.	Techfest/Women's day/ FDP/ Conference organizing team member	Department level/ College level
7.	Project Orientation classes team member	Department level
8.	Women's protection cell member	Department level

15. Research Guidance:

M.Tech.		Ph.D.	
Completed	Ongoing	Completed	Ongoing
12	-	-	-

16. Research Publications in Journals (National/International): 19

S.No.	Author(s) Name	Title of the Paper	Name of the Journal	National/ International	Month & Year	Volume, Issue No, Page Nos	UGC/ Web of Sciences/ Scopus/ SCI/Others
1.	K. J. Silva Lorraine and Madhu Ramarakula	A Comprehensive Survey on GNSS Interferences and the Application of Neural Networks for Anti-jamming	IETE journal of research, Taylor and Francis	International	Aug 2021	pp: 1-20	SCI and Scopus (Free)
2.	K. J. Silva Lorraine and Madhu Ramarakula	An efficient interference mitigation approach for NavIC receivers using improved variational mode decomposition and wavelet packet decomposition	Trans. Emerging Tel. Tech., Wiley	International	Mar 2020 -21	32(4), e4242, pp:1-24	SCI and Scopus (Free)
3.	K. J. Silva Lorraine and Madhu Ramarakula	Hybrid anti-jamming algorithm for IRNSS receivers using variational mode decomposition and wavelet packet transform	International Journal of Communication Systems, Wiley	International	Feb 2020 -21	34(7), e4734, pp:1-16	SCI and Scopus (Free)
4.	K.J.Silva Lorraine, N. Raj Kamala	Comparative Analysis of Various Beamforming Techniques for Interference	IJRECE	International	Sept 2019 -20.	7(3), pp:422-430	Index copernicus

		Cancellation in GPS receivers					
5.	V. Vijay Babu, K. J. Silva Lorraine	Power Control in CDMA Using MOTDPC Algorithm	JETIR	International	dec 2018 -19	5 (12), pp: 449-53	UGC approved
6.	Sumathi, K, KJ Silva Lorraine, and P S Rosaline	CCI Cancellation for Cooperative Communication Systems Using MMSE SIC with Optimal Ordering	IJAERD	International	dec 2017 -18	4 (12): 71-78	UGC approved
7.	Sruthi, T and K.J. Silva Lorraine	Extenuation of Near-Far Effect using signal pulsing scheme and RSIC to reduce MAI in pseudolite applications	IOSR-JECE	International	Aug 2016	11(4), pp: 91-98	CrossRef
8.	P. Lakshmi Sowjanya, and KJ Silva Lorraine	Image Encryption using Secure Force Algorithm with Affine Transform for WSN	IJESRT	International	Aug 2016	5(8),pp: 379-387	UGC approved
9.	K, Sairam, and Lorraine KJS	Design of Speech Codec for VoIP applications	IJSETR	International	July 2015	4(27), :5350-5355	CrossRef
10	KJ Silva Lorraine, R Pavana, T Suresh, K Rama, and T Tejaventh	Design of CPW-fed Capacitive Coupled Patch Antenna for WiGig Applications	Research Inveny: IJES	International	June 2015	Vol.5, Issue 6, 17-23	Index copernicus, J Gate
11	Bhaskar, Ch, K J Silva Lorraine, and D Venkata Ratnam	Analysis of Near-Far Problem using Power Control Technique for GNSS based Applications	Research Inveny: IJES	International	Nov 2014	Vol.4, Issue 11, 01-08	Index copernicus, J Gate
12	Sipora, K Rosili, K J Silva Lorraine, and D Venkata Ratnam	Design of Inset-Fed Ceramic Patch Array Antenna for Pseudolite Based Positioning Applications	IJR D	International	Nov 2014	Vol 3, Issue 11,224-234	J Gate, crossref
13	KJS Lorraine, K Bala Teja, G Durga Devi, and K Harika	Comparative Analysis of Various Edge Detection Techniques and Cancer Cell Detection using Sobel Algorithm	IJESE	International	June 2014	Vol-2, Issue-8,1-4	Publons, crossref
14	Silva Lorraine, K J, D Ajay Kumar, Ch V Naga Bhaskar, and K RosiliSipora	Analysis of Near-Far Effect and Multipath Mitigation Techniques for Pseudolite Based Positioning Applications	IJECT	International	Mar 2014	Vol 5, Issue 3, 37-41	Index copernicus, J Gate
15	Pavani, M Sasi, and K J S Lorraine	Analysis of Channel Capacity Maximization and Optimum Power Control of MIMO Networks	IJECT	International	Mar 2014	Vol 5, Issue 4,153-156	Index copernicus, J Gate
16	Manchala, Sasi, and Silva Lorraine	Robust & Efficient Power Management Technique for MIMO Network Interfaces.	IJCTT	International	Nov 2013	Vol 5, Issue 2,69-74	CrossRef

	K.J.						
17	Manne, Nagababu, and Silva Lorraine K.J.	Shamir Secret Sharing Based Authentication Method With Data Repair Capability For Gray Scale Document Images Via The Use Of PNG Image	IJCTT	International	Nov 2013	Vol 5, Issue 1,37-43	CrossRef
18.	K.J.Silva Lorraine et.al	Impulse Noise Detection and Filtering Based On Adaptive Weighted Median Filter	Research Inveny: IJES	International	Nov1 2	Vol. 1, Issue 8, 49-54	Index copernicus, J Gate
19.	D. Krishna Reddy, P. Selva Rosaline, K. J. Silva Lorraine et.al	Optimization of GPS Receiver Architecture to Mitigate Near-Far Problem	IJECT	International	Dec 2011	Vol 2 Issue SP-1, PP: 96-99	Index copernicus, J Gate

17. Research Papers in Conferences (National/International): 7

S.No.	Author(s) Name	Title of the Paper	Name of the Conference/ Journal	National/ International	Month & Year	Page Nos
1	K.J.S. Lorraine	SMART ANTENA BEEM FORMING LCMV MVDR ALOGAORITHM	ICACT 2019	international	2019	40
2	K.J.S. Lorraine, Ramarakula Madhu	Study Of Hybrid RF/FSO System To Enhance Effective Range in A Near –Far Scenario	ICWSNUCA-2018	International	August 24-25, 2018-19	-
3	Silva Lorraine et al.,	Analysis of Near-Far Effect and Multipath Mitigation Techniques for Pseudolite Based Positioning Applications	NCRRECE-2014	National	24-25 Feb, 2014	-
4.	Pavani, M Sasi, and K J S Lorraine	Analysis of Channel Capacity Maximization and Optimum Power Control of MIMO Networks	NCRRECE-2014	National	24-25 Feb, 2014	-
5.	K.J.Silva Lorraine et.al.,	Impulse Noise Detection and Filtering Based On Adaptive Weighted Median Filter	ACNCN-2012, IEEE conf.	International	17th–18th March 2012	PP: 295
6	K. J.Silva Lorraine et al.,	Fault Diagnosis of a sense Amplifier Circuit	ICCTSD 2011, Elsevier	International	7-9 Dec, 2011,	Vol 30, PP: 937–44
7.	K. J. Silva Lorraine et al.,	Optimization of GPS Receiver Architecture to Mitigate Near-Far Problem	ICACCBIE-11	International	Dec 8-9, 2011	PP: 26, ECE72
8	K J Silva Lorraine, A Kumar, AD Sarma, DK reddy.	Mitigation of Near-Far Problem in Local Area Augmentation System	ICON RFW-10, IETE conf.	National	October 7th-9th, 2010	ICON 2

18. No of Books Published: NIL

S.No.	Author(s) Name	Title	Publisher	ISBN	Year of Publishing

19. Workshops/ FDPs/STTPs /etc., (Organised):

S.No.	Name of the Workshop/ FDP/STTP/ etc.,	Place	Period	
			From	To
1.	Computer Vision with Python	Sir CRRCOE	11-09-2019	14-09-2019
2.	Data Analytics using Python	Sir CRRCOE	28-08-2019	31-08-2019
3.	Recent trends in space technology & navigation aids for Aviation	Sir CRRCOE	30-11-2018	-
4.	Design and Analysis of Antennas and Microwave components using HFSS	Sir CRRCOE	22-01-2018	24-01-2018
5.	Design and Analysis of Antennas and Microwave components using HFSS	Sir CRRCOE	31-01-2018	02-02-2018

20. Workshops/ FDPs/STTPs/ etc., (Attended):

S.No.	Name of the Workshop/ FDP/STTP/ etc.,	Place	Period	
			From	To
1.	Current Trends and Emerging Advances in Marine Navigation & Communication	Online-AICTE sponsored STTP	07-12-2020	12-12-2020
2.	Antenna design and analysis using mathematical solvers	Online-AICTE sponsored STTP	07-09-2020	12-09-2020
3.	Advances in Wireless Technologies and Telecommunication	Online-AICTE sponsored STTP-III	31-08-2020	05-09-2020
4.	Advances in Wireless Technologies and Telecommunication	Online-AICTE sponsored STTP-II	17-08-2020	22-08-2020
5.	Effective Technical Report writing using LaTeX	Online-FDP	08-06-2020	09-06-2020
6.	Skill Development for Effective Research and Teaching - Learning Process	Online-FDP	08-06-2020	12-06-2020
7.	Evolutionary and Nature Inspired Meta-Heuristic Algorithms for Engineering Applications	Sri vishnu college for women, SVECE, Bhimavaram	13-04-18	17-04-18
8.	3D Modelling of Electromagnetic systems using ANSYS RF-tools	Sir CRRCOE	9/09/16	10/09/16
9.	Matlab for Engineering Applications	Sir CRRCOE	19/08/16	20/08/16
10.	Research Methodologies	JNTUK	01-05-2016	15-05-2016
11.	Intellectual property rights and patents	JNTUK	16-05-2016	30-05-2016

21. Sponsored Projects: NIL**22. Consultancy Projects: NIL****23. No of Patents (Filed/Granted): NIL****24. Awards/Honours Received:**

S.No.	Award Name	Awarded by	Contribution	Date Received
1.	Silver Medal and merit certificate	CBIT, Hyd.	Academic Excellence, M.E	30-03-2010
2.	Certificate of Academic	NCE, Jrg.	Academic Excellence,	June 2006

	excellence		B.Tech	
3.	Certificate of Academic excellence	NCE, Jrg.	Academic Excellence, B.Tech	Jan 2007

25. Professional Memberships:

S.No.	Name of the Professional Body	Membership No.	Membership Type
1.	IETE	AM-500604	Associate member
2.	IE	AM 163846-6	Associate member

26. Membership in BOS/ Editorial Boards: NIL

27. Details of Personal Blogs/ Educational Youtube Channels/ e content (if any): -

ResearchGate: <https://www.researchgate.net/profile/Kjsilva-Lorraine>

Google Scholar:

<https://scholar.google.com/citations?user=dst6FckAAAAJ&hl=en&oi=ao>

28. Details of Innovative Design/ Development of Product or Model (if any):-

29. Technology Transfer: A Technical Report was produced which is used by the sponsoring Agency- Department of Science and Technology (DST).

K.J. Silva Lorraine and A.D. Sarma, "Investigation of Various Mitigation Methods for selection of suitable Technique for Near- Far problem in Pseudolite based Tracking System", NERTU/ITR/ADS/07, February 2011, Research and Training Unit for Navigational Electronics, Osmania University, Hyderabad – 500 007.

30. Special Achievements (If any):

- Selected for "Summer Faculty Research Fellow Programme-(SFRF 2018)" held during 21/05/18 to 29/06/18 at IIT, Delhi.
- Resource person for "Induction training of SCT PCs Communications" held during 27/1/2018 to 7/2/2018 at District training center, Pedavegi.

31. Personal Details:

- (a) Father's Name : K V Kumar
 (b) Mother's Name : Jhansi Rani Gummadi
 (c) Gender : Female
 (d) Marital Status : Unmarried
 (e) Religion : Christian
 (f) Nationality : Indian

R. Siva Loni

Signature