

ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY (Approved by AICTE, New Delhi & Affiliated to JNTU Kakinada) Accredited by NAAC & An ISO 9001:2015 Certified Institution

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FACULTY PROFILE

Name of the Faculty	Dr. Lakshmi Nara					
Designation	Associate Profess	sor				
Department	ELCTRONICS & COM	IMUNICATION EN	GINEERING			
Date of Joining the Institution	06-06-2012					
Qualification with Class/Crade	UG: B.Tech. (ECE) FIRST CLASS					
Qualification with Class/Grade	PG: M.Tech. (VLSI) FIRST CLASS WITH DISTINCTION					
	Ph.D. (RF MEMS Switches)					
Employee ID	ALIET-12-06					
E-Mail	drtln9@gmail.com					
Total Experience in Years	Teaching: 8+ years	Industry: 0 year				
Papers Published	National: 00	International: 17				
Papers presented in Conferences	National: 00	International: 10				
PhD Guide? Give field & University	Field:	University:				
PhDs / Projects Guided	PhDs: 00	Projects at Masters Level: 05 Projects at UG Level: 20 Batches				
Books Published/IPRs/Patents						
Professional Memberships	IEEE(92493162), IE(AM 165840-1), IACSIT(80343463), IAENG(124495)					
Consultancy Activities						
Awards						
Grants fetched						
Whether Ratified by University (Yes/No)	YES					

RESEARCH PUBLICATIONS:

List of Publications (Conferences) :

S.N 0.	Authors	Title of Research Paper	Name of proceedings	ISB N No.	Date of Conference	Organized by	Publish ed in
1	¹ Lakshmi Narayana Thalluri, ² Anji Reddy Nallapu, ³ Ramakrishna Konda, ⁴ S. Sai deep, ⁵ Kata Naga Harsha	Design and Performance Analysis of Vivaldi Antenna for Medical Applications	International Conference on Communicatio n and Signal Processing	978- 1- 7281- 4988- 2	28-7-2020 to 30-7-2020	Om sakthi Adhiparasakth i Engineering College, Melmaruvathu r-603319	IEEE Digital Library
2	Lakshmi Narayana Thalluri ¹ , K Srinivasa Rao ² , G Venkata Hari Prasad ³ , S S Kiran ⁴ , Koushik Guha ⁵ , Appala Raju Kanakala ¹ , P Bose Babu ¹	Reconfigurable Antennas for RFID/WLAN/Wi MAX Applications using RF MEMS Switches	International Conference on'Microelect ronics, Circuits and Systems', Micro-2020		25-7-2020 to 26-7-2020	Applied Computer Technology, Kolkata, India. and Delhi Technological University, Delhi, India.	Lecture Notes on Electric al Enginee ring(LN EE) Springer - Nature.
3	Md. Baig Mohammad ¹ , Lakshmi Narayana Thalluri² , Renuka Devireddy ³ , Priyanka.Ch ⁴ ,Rajiya Sulthana ⁵	An image processing approach for grading of mangoes based on maturity	International conference on computational performance Evaluation		2-7-2020 to 4-7-2020	North-Eastern Hill University, Chillong.	IEEE digital Library
4	Lakshmi Narayana Thalluri, Jitendra Prasad Ayodhya, T B Anjaneya Prasad, CH Yuva Raju, SaiDivya Vadlamudi , P Bose Babu	A Novel and Smart IoT System for Real Time Agriculture Applications with IaaS Cloud Computing	International Conference on Computer Communicatio n and Informatics (ICCCI-2020)	978- 1- 7281 - 4514 -3	22-24 Jan. 2020	Sri Shakthi institute of Engineering and technology, Coimbatore.	IEEE Digital Library
5	Kandula Rama Rao ; Sathuluri Mallikharjuna Rao ; Lakshmi Narayana Thalluri ; Bayyana Harika Naidu	FM0 and manchester encoding using SOLS technique with clock gating & power gating methods	International Conference on Communicatio n and Signal Processing (ICCSP-2017)	978- 1- 5090 - 3800 -8	6-8 April 2017	Adhiparasakthi Engineering College, Melmaruvathur, Tamil Nadu ,603319.	IEEE Digital Library
6	Lakshmi NarayanaThalluri, LakkojuGayatry, S R Sastry Kalavakolanu ³ , AppalaRajuKanakal a'	Structural Analysis and Design of Microstrip Antenna forS- Band Applications	International Conference on Control, Instrumentatio n, Communicatio n and Computational Technologies, (ICCICCT- 2016).	978- 1- 5090- 5240- 0	16 th & 17 th , December, 2016.	Noorul Islam University, Kumaracoil, Kanyakumari Dist., Tamilnadu, India - 629 180	IEEE Digital Library
7	K SrinivasaRao, M DurgaPrakash,	Cantilever and Cirular Disc	International Conference	978-	9 th &10 th December,	GSSS Institute of	IEEE Digital

	Lakshmi	Structure Based	Electrical,	1-	2016	Engineering	Library
	NarayanaThalluri	Capacitive Shunt	Electronics,	509		& Technology for	
		RF MEMS	Communicatio	0-		KRS Road,	
		Switches	n, Computers	469		Metagalli,	
			and	7-3		Mysuru-	
			Optimization	10		570 016,	
			Techniques			Karnataka.	
			(ICEECCOT-				
			2016)				
8	Lakshmi	Design of Human	International	978-	$18^{\text{th}}\&19^{\text{th}}$,	Noorul Islam	IEEE
	NarayanaThalluri,	Face Detection	Conference on	1-	December,	University,	Digital
	S R	and Recognition	Control,	467	2015.	Kumaracoil,	Library
	SastryKalavakolanu,	System Along	Instrumentatio	3-		Kanyakumari	
	P Bosebabu, G	With Speech	n,	982		Dist.,	
	Roopa Krishna	Synthesis	Communicatio	5-1		Tamilnadu,	
	Chandra,		n and			India - 629	
			Computational			180	
			Technologies, (ICCICCT-				
			2015).				
9	Lakshmi	Design of Low	International		14 th &15 th ,	International	ASME
-	NarayanaThalluri,	Power 1x3Router	Conference on		January,	Association of	Digital
	SusruthaBabuSukha		Communicatio		2012.	Computer	Library
	vasi,		n and			Science and	5
	SuparshyaBabuSukh		Electronics			Information	
	avasi, S R		Information			Technology	
	SastryKalavakolanu		(ICCEI).			(IACSIT)	
10	Lakshmi	Design of Low	International	978-	$15^{\text{th}}\&16^{\text{th}},$	Karunya	IEEE
	NarayanaThalluri,	Power and High	Conference on	1-	March,	University,	Digital
	SusruthaBabuSukha	Performance	Control,	457	2012.	Coimbatore,Ta	Library
	vasi,	Router Using	Instrumentatio	7-		milnadu.	
	SuparshyaBabuSukh	Dynamic Power	n,	154			
	avasi, S R	Reduction	Communicatio	6-4			
	SastryKalavakolanu	Technique	n and				
	, Tatineni Krishna Karthik		Computational				
	Nartilik		Technologies, (ICCICCT-				
			2015)				
			2013)				

List of Publications (Journals):

S.No.	Authors	Title of Research	Name of	DOI	Year of	Impact
		Paper	Journal,		Publication	Factor
			Publisher.			
1	Lakshmi Narayana	Perforated serpentine	Microsystem	https://	31-	1.58
	Thalluri, Koushik Guha,	membrane with AlN as	Technologies	doi.org/	January-	
	K. Srinivasa Rao, G.	dielectric material shunt	,	10.100	2020	
	Venkata Hari Prasad, K.	capacitive RF MEMS	Springer	7/s0054		
	Girija Sravani, K. S. R.	switch fabrication and	Berlin	2-020-		
	Sastry, Appala Raju	characterization	Heidelberg	04755-		
	Kanakala, P. Bose Babu.		Publisher.	3		
			(SCI)			
2	K. Srinivasa Rao, Ch. Gopi	Design, Modeling and	IEEE Access,	10.110	1-May-2019	3.5
	Chand, K. Girija Sravani,	Analysis of Perforated	IEEE	9/ACC		
	D. Prathyusha, P. Naveena,	RF MEMS Capacitive	Publisher.	ESS.20		
	G. Sai Lakshmi, P. Ashok	Shunt Switch	(SCI)	19.291		
	Kumar,			4260		
	T. Lakshmi Narayana.					
3	K. Girija Sravani , D.	Design and	IEEE Access,	10.110	11-April-	3.5
	Prathyusha, K. Srinivasa	Performance Analysis	IEEE	<i>9/ACC</i>	2019	
	Rao, P. Ashok Kumar, G.	of Low Pull-In	Publisher.	ESS.20		

	Sai Lakshmi1, Ch. Gopi	Voltage of Dimple	(SCI)	19.290		<u>г</u> 1
	Chand, P. aveena,	Type Capacitive RF	(SCI)	19.290 5726		
	Lakshmi Narayana	MEMS		5720		
	Thalluri , and Koushik	Shunt Switch for Ka-				
	Guha	Band				
4	K. SrinivasaRao, Lakshmi	Fabrication and	IEEE Access,	10.110	12-	3.5
-	Narayana	Characterization of	IEEE / Recess,	9/ACC	December-	5.5
	Thalluri1,KoushikGuha,	Capacitive	Publisher.	ESS.20	2018	
	and K. GirijaSravani.	RF MEMS Perforated	(SCI)	18.288	2010	
	and K. On jastavam.	Switch	(301)	3353		
5	K. GirijaSravani,	Role of dielectric layer	Microsystem	https://	21-August-	1.58
5	T. Lakshmi Narayana,	and beam membrane in	Technologies	doi.org	2018	1.50
	KoushikGuha,	improving	recimologies	/10.100	2018	
	K. SrinivasaRao.	the performance of	, Springer	7/s005		
	K. SIIIIVasaKao.	capacitive RF MEMS	Berlin	42-		
		switches for Ka-band		42- 018-		
			Heidelberg			
		applications	Publisher.	4038-4		
6	T Lakshmi Narawana V	A Micro Level	(SCI)	https://	28-June-	0.0
0	T. Lakshmi Narayana , K. GirijaSravaniand K.		Cogent	https://	28-June- 2017	0.9
	SrinivasaRao.	Electrostatically Actuated Cantilever and	Engineering,	doi.org/	2017	
	Simivasakao.		Taylor and Francis	10.108 0/2331		
		Metal Contact Based Series RF MEMS	Prancis Publisher.	0/2331 1916.2		
		Switch for Multi-Band	(H-index,	017.13		
		Applications	ESCI,	23367		
7	T Labahari Marana V	Design and analysis - C	Scopus)	httma://	20 Amount	0.0
7	T. Lakshmi Narayana, K. GirijaSrayaniand K	Design and analysis of CPW based shunt	Cogent	https://	28-August-	0.9
	GirijaSravaniand K. SrinivasaRao.		Engineering,	doi.org/ 10.108	2017	
	SIIIIvasaKaO.	capacitive RF MEMS switch	Taylor and Francis	0/2331		
		SWITCH	Publisher.	0/2331 1916.2		
				017.13		
			(H-index, ESCI,	63356		
				05550		
8	Lakshmi	Analysis of Radio	Scopus) IJPAM,sema	_	2017	_
0	NarayanaThalluri, K	Frequency and	nticscholar.	-	2017	-
	SrinivasaRao, S R	Mechanical Properties				
	Simvasakao, S K SastryKalavakolanu,	-	(Scopus)			
		of Bridge Based Shunt Capacitive RF MEMS				
	AppalaRajuKanakala.	Switch				
9	K.Prathyusha, Lakshmi	Design of a Novel IoT	IJRECE	1	2018	-
7	NaryanaThalluri.	Based Cardiovascular	IJNECE		2010	-
		Patient health				
		andSurrounding				
		Weather Monitoringand				
		Controlling System				
10	SkNazma, Lakshmi	Role of SURF and	IJRECE		2018	-
10	NaryanaThalluri.	MFCC Algorithms in	BILLE		2010	-
	1 1ai yana 1 nanui 1.	the design of Human				
		interacting systems.				
11	T. Lakshmi Narayana, D.	A Novel Series SPST	Journal of	_	2017	_
11	Manaswi, A. Vanaja, and	RF MEMS Switches	Mechanics	-	2017	-
	K. SrinivasaRao.	with High Isolation and	and MEMS			
	K. SIIIIvaSaKaU.	-	(Peer			
		Low Actuation Voltage	(Peer Reviewed)			
			Keviewea)			
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Books Published:

• "RF MEMS Switches: Design, Simulation, Fabrication and Characterization", Paper back : 138 pages, ISBN-10 : 9389530369, ISBN-13 : 978-9389530360, Publisher : White Falcon Publishing (21 November 2019).

WORKSHOPS, FACULTY DEVELOPMENT PROGRAMS & SEMINORS:

- Successfully completing the course on **online teaching skills**, between 15th 20th June 2020, organized by Loyola Institute of Business Administration (LIBA), Chennai.
- Participated in the Online AICTE Recognized Faculty Development Programme on **Research Trends in VLSI Design** from 25-05-20 to 29-05-20 (One Week) Organized by Electronics and Communication Engineering Department NITTTR, Chandigarh.
- Participated in the Online AICTE Recognized Faculty Development Programme on **Nanomaterials and Devices** from 25-05-20 to 29-05-20 (One Week) Organized by Applied Science Department NITTTR, Chandigarh.
- Participated in the Online AICTE Recognized Faculty Development Programme on **Open Source Cyber Security Tools** from 18-05-20 to 22-05-20 (One Week) Organized by Computer Science and Engineering Department NITTTR, Chandigarh.
- Participated in the Online AICTE Recognized Faculty Development Programme on **Quantum** and Energy Materials: Potential & Applications from 18-05-20 to 22-05-20 (Except 19/05/2020, 20/05/2020, 21/05/2020, 22/05/2020) Organized by Applied Science Department NITTTR, Chandigarh
- Participated in the Online AICTE Recognized Faculty Development Programme on NBA Accreditation of Engineering Programs from 11-05-20 to 15-05-20 (One Week) Organized by Mechanical Engineering Department NITTTR, Chandigarh.
- Participated in the Online AICTE Recognized Faculty Development Programme on **Image and Embedded Processing** from 11-05-20 to 15-05-20 (One Week) Organized by Electronics and Communication Engineering Department NITTTR, Chandigarh.
- Participated in the Online AICTE Recognized Faculty Development Programme on **Strategic Planning for Entrepreneurship Promotion** from 04-05-20 to 08-05-20 (One Week) Organized by Entrepreneurship Development and Industrial Coordination Department NITTTR, Chandigarh.
- Participated in the Online AICTE Recognized Faculty Development Programme on **Understanding Project Management Basics** from 27-04-20 to 01-05-20 (One Week) Organized by Entrepreneurship Development and Industrial Coordination Department NITTTR, Chandigarh
- Completed the Short Term Training Programme through ICT Mode on **Network Security** organized by NITTTR, Kolkata from 27/04/2020 to 01/05/2020 [duration: 1 Week]
- Participated in the Online AICTE Recognized Faculty Development Programme on Low Power VLSI Design from 20-04-20 to 24-04-20 (One Week) Organized by Electronics and Communication Engineering Department NITTTR, Chandigarh.
- Participated in the Online AICTE Recognized Faculty Development Programme on Latest Wireless and Computing Technologies from 14-04-20 to 18-04-20 (One Week) Organized by Electronics and Communication Engineering Department NITTTR, Chandigarh.
- Participated in the "**Applied Robotics Control Lab**" faculty development program 2.0 from 5th to 12th August 2019, conducted by German center for advanced Engineering and Management studies UG and APS GmbH-European center for Mechatronics.
- Participated in the "**Applied Robotics Control Lab**" faculty development program from 16th to 24th May 2019, conducted by German center for advanced Engineering and Management studies UG and APS GmbH-European center for Mechatronics.
- Participated in 13th Hands-on training on **MEMS cantilever and Micro and Nano characterization techniques**, conducted at the center for nano science and Engineering, IISc Bangalore, from 12th to 22nd September 2017.
- Participated in a three day faculty development program on "Industrial IoT using NI graphical systems design platform" organized by department of EEE & ECE, ALIET, during 13th to 15th July 2017.

Programs Organized:

- Organized and acted as a Speaker in a Two day Workshop on "A Role of Transducers & Programmable devices in control & Medical Applications using IoT" from 30th & 31st January 2017.
- "Role of Transducers and Programmable Devices in IOT Applications" at Andhra Loyola

Institute of Engineering and technology, Vijayawada, During 12th -14th December 2017.

 Organized and acted as a Speaker in a two day workshop On "Role of Transducers &Programmable Devices in IOT Applications" 4th& 5th December 2018, for B.Sc. Electronics DEC students, Andhra Loyola College at ALIET Vijayawada.

Research Contribution:

• Fabricated and Characterized a "Shunt Capacitive RF MEMS Switch" during 5th to 23rd February 2018, at CeNSE, IISc, Bangalore.