Name:N. AkshayDesignation:Assistant ProfessorDepartment:Electronics & Instrumentation EngineeringMail ID:akshay_n@vnrvjiet.in



Experience (in years): Teaching: 20 Research: 2 Others (If any, Specify):-

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D.)	Year of passing	Specialization
1	Ph.D.	Pursuing	Instrumentation& Control
2	M. Tech.	2007	VLSI SD
3	B.E.	2003	Instrumentation

2. Teaching and Learning:

- 2.1. Teaching Interests: Process Control Instrumentation, Automation, LabVIEW, P.L.C.
- 2.2. Novel Teaching & Learning Techniques adopted: Activity-based learning (POGIL), Moodle L.M.S., I.C.T.
- 2.3. Involvement in curriculum updating / Design:- Yes

3. Co-curricular and Extra-Curricular Activities

- 3.1. Interests and Hobbies: Cricket
- 3.2. CCA/ECA Organized:
- 3.3. CCA/ECA participated: 20
- 3.4. Counseling and Mentoring Activity: B. Tech. Students

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- 3.5. Committees involved in: Department level: 2 Institute Level: 2
- 4. Conference / Workshop / Seminar / Guest Lectures:
- 4.1. Conducted: 5
- 4.2. Attended: 44
- 5. Academic Contribution and Research & Consultancy:
- 5.1. **Invited Lectures:-** 1 at V.I.T. University
- 5.2. Articles/Chapters published in Books:-2
- 5.3. Books published as a single author or as editor:-
- 5.4. Projects Guided:

a) U.G.: 46 b) P.G.: 6

- 5.5. Research Interests: Automation & Control
- 5.6. Ph.D. students: Nil
 - a) Enrolled: b) Submitted: c) Awarded:

S .7.	Title of the Paper	Journal Name Vol.	ISBN/	Impact	National/
No	ľ	No. PP	ISSN No.	Factor/	International
				Citation Index	
1	Least Square Support	Gazi University	e-	ESCI	International
1	Vector Machines Laguerre	Journal of	ISSN: 21	(WoS),	International
	Hammerstein Model	Science,2023, Vol	47-1762	Scopus	
	Identification and	36(1)	., ., ., .,	Indexed	
	Nonlinear Model				
	Predictive Controller				
	Design for pH				
	Neutralization Process		1202	9	T , 1
2	IoT Enabled Industrial	NeuroQuantology, December 2022	1303- 5150	Scopus Indexed	International
	Process Monitoring System	December 2022	5150	muexeu	
	by stem				
3	A novel LSSVM-L	Chemical Product	ISSN: 19	ESCI	International
	Hammerstein model	and Process	34-2659	(WoS),	
	structure for system	Modeling, July		Scopus	
	identification and	2021, 17 (6).		Indexed	
	nonlinear model predictive control of CSTR servo and				
	regulatory control				
4	Optimization based	I.O.P. Conference	ISSN:	Scopus	International
	internal model control	Series: Materials	1757-	Indexed	
	design	Science and	899X		
		Engineering,			
		Vol:1022, 012088			
5	Fault Detection of Under	,pp.1-14 Journal of	ISSN:	Google	International
	Ground Cable using IoT.	Information and	1548-	Scholar	momutonui
		Computational	7741	Indexed	
		Science ,Volume 10			
		Issue 11, pp. 99-103	10 01	~	
6	Development of Multi-	AutAut Research	ISSN NO:	Scopus	International
	Model P.I.D. Controller	Journal Volume XI, Issue V,	0005- 0601	Indexed	
	on FPGA for Furnace	pp.140-146	0001		
	Temperature Control	FLUE LIG			
	Problem				
L					

5.7. Papers published in reviewed Journals:

7	Intelligent Voice Controlled Home Automation	Advanced Science Letters Volume 26 ,Issue-5 ,pp. 283-289	E- ISSN:193 6-7317	Google Scholar Indexed	International
8	Design of Optimal Scheduling Of Electrical Load For Smart Power Utilization	Alochana Chakra Journal Volume IX, Issue V, pp.5702-5708	ISSN NO:2231- 3990	Google Scholar Indexed	International
9	Data Driven Design of IMC-fractional Filter PI Controller for Sewage Waste Water Process	Jour of Adv Research in Dynamical & Control Systems, Vol. 11 No. 3 2019(Scopus Indexed)	ISSN: 1943- 023X	Scopus Indexed	International
10	Multi loop Controller Design for Multivariable Processes Employing SISO PI Tuning Rules	International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-8, Issue- 6S4, April 2019(Scopus Indexed)	ISSN: 2278- 3075	Scopus Indexed	International
11	MC-Based Topology for Bi-Directional Power Flow between E.V. Charger and Grid	International Journal of Research and Analytical Reviews, May 2019, Volume 6, Issue 2(U.G.C. Indexed Journal)	ISSN 2348- 1269	Google Scholar Indexed	International
12	Design And Implementation Of Neonate Health Condition Monitoring Device	i-manager's Journal on Digital Signal Processing, Vol. 6, No. 4, October - December 2018	ISSN Print: 232 1-7480	Google Scholar Indexed	International
13	P.I. Controller Design for Multivariable processes based on Ziegler-Nichols Tuning Method	Journal of Advanced Research in Dynamical & Control Systems, Sept., 2018(Scopus Indexed)	ISSN: 1943- 023X	Scopus Indexed	International
14	Online Auto Selection of Tuning Methods and Auto Tuning PI Controller in	Elsevier Energy Procedia Vol. 117, June 2017,	ISSN: 18 76-6102	Scopus Indexed	International

	FOPDT Real Time	pp. 1109-1116			
	Process-pH Neutralization	(Scopus Indexed)			
		(Seepus meeneu)			
15	Process Identification with	Indian Journal of	ISSN	Scopus	International
15	Autoregressive Linear	Science and	0974 -	Indexed	International
	Regression Method using	Technology, Vol.9,	5645	machea	
	Experimental Data:	Issue 39, October	0010		
	Review	2016,pp. 1			
16	Self Adaptive Design	International	e-ISSN:	Google	International
	Implementation of Auto	Research Journal of	2395 -	Scholar	
	Tuning Algorithm for P.I.	Engineering and	0056	Indexed	
	Controller in Real Time	Technology (IRJET)			
	pH Neutralization Plant	Vol: 03 Issue: Oct -			
	Operation	2016,pp 1267-70.			
17	Design And	Journal on	ISSN	Google	International
	Implementation of	Instrumentation and	2321-	Scholar	
	Algorithm for Real- Time	Control Engineering,	113X	Indexed	
	Patient Monitoring in	Vol.4 ,Issue 1,			
	Ambulance While Transit	Nov-Jan 2016, , pp.			
		17-23.			
18	Multichannel Data	International Journal	ISSN:	Google	International
	Acquisition And Control	Of Embedded &	2349 -	Scholar	
	System Using Labview	VLSI System ,Vol.	8129	Indexed	
		3, Issue 12 Dec 2014			
19	A Robust And Secure	International Journal	-	-	International
	Approach To Transfer A	Of Professional			
	Secret Image Using	Engineering Studies			
	Reversible Color	Vol. V /Issue 5 /Oct			
	Transformations For	2015			
.	Confidentiality		10021		
20	Real Time Monitoring	International Journal	ISSN:	Google	International
	And Control Of Neonatal	of Application or	2319-	Scholar	
	Incubator Using	Innovation in	4847.	Indexed	
	LabVIEW	Engineering &			
		Management,			
		Volume 2, Issue 4,			
- 21		April 2013	TOOM		T / / 1
21	Integration And	International Journal	ISSN:	Google	International
	Automation Of Systems	of Application or	2319-	Scholar Indexed	
	For Product Identification	Innovation in	4847	Indexed	
	And Segregation.	Engineering &			
		Management,			
		Volume 2, Issue 4,			
		April 2013			

22	Real Time Automated	International Journal	ISSN:	Google	International
	Control of Industrial	for Research in	2319-	Scholar	
	Processes with P.L.C. –	Science & Advanced	2690	Indexed	
	LABVIEW	Technologies			
	Communication	(IJRSAT), Issue-1,			
		Vol-1, August 2012,			
		pp: 035-038			
23	Implementation Of 3D	International Journal	ISSN:	ICI	International
	DWT With 5/3 LeGall	on Computer	0975-	Indexed	
	Filter For Image	Science and	3397		
	Processing	Engineering IJCSE –			
	_	May 2012, Vol. 4,			
		No. 5			
24	Multi-Vendor Remote	CVR Journal of	ISSN:	Peer	National
	Monitoring and Control	Science and	2277-	Reviewed	
	System for Hydraulic	Technology Vol 3,	3916		
	Drive Systems	Dec 2012			
25	Multiplierless Design for	International Journal	ISSN	DOAJ,	International
	Multilevel Forward and	for Computer	0975 –	ProQuest	
	Inverse 2D	Applications-IJCA,	8887		
	Discrete Wavelet	March 2011			
	Transform	(Indexed in Scopus			
		Database)			
26	High Speed Power	International Journal	ISSN	DOAJ,	International
	Efficient Asynchronous	for Computer	0975 –	ProQuest	
	Adders	Applications-IJCA	8887		
		,March2011(Indexed			
		in Scopus Database)			

5.8. Papers presented at National / International Conference:

S. No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Respiratory Analysis –	2022 8th International	International	March
	Detection of Various Lung	Conference on Advanced		2022
	diseases using Audio Signals	Computing and Communication		
		Systems (ICACCS)		
2	Applications Of Information	I st International Conference on	International	June 2021
	and Communication	Emerging Trends in Information		
	Technology In Health	and Communication Technology		
	Monitoring Systems	(ICETICT 2021)		
3	IOTBased Street Light	Virtual International Conference	International	July 2020
	Monitoring &	on "A.I. and ML Applications in		
	Controlling System For	Smart Buildings"(AMSB2020)		
	Smart Cities			

4	NARX-EMFO Based Controller Optimization for pH Neutralization in Waste Water Treatment	Second International Conference on Power Engineering Computing and CONtrol (PECCON – 2019)	International	Dec 2019
5	Multi-loop Controller Design For Multivariable Processes Employing SISO PI Tuning Rules	International Conference on Advances in Signal Processing, Power, Embedded, Soft Computing, Communication, and Control Systems (ICSPECS-2019)	International (Indexed in Scopus Database)	Jan 2019
6	Bio-Signal System Design For Real-Time Ambulatory Patient Monitoring and Abnormalities Detection System	6 th International Conference On Innovations In Electronics & Communication Engineering (ICIECE - 2017), Hyderabad	International (Indexed in Scopus Database)	July 2017
7	Auto Tuning of P.I. Controller in FOPDT Real- Time Process-pH Neutralization	First international conference on - Power Engineering Computing and CONtrol (PECCON 2017) V.I.T. University, Chennai	International (Indexed in Scopus Database)	March 2017
8	Design & Implementation of a Real-Time Bio-Signal Acquisition System for Quality Health Care Services for the Population of Rural India	IEEE International Conference On Recent Trends In Electronics Information Communication Technology, Bangalore	International (Indexed in Scopus Database)	May 2016
9	Design and Implementation of Fuzzy Based Robust Controller for Process Control Instrumentation	IEEE's International Conferences For Convergence of Technology (I2CT 2014), Pune, India	International (Indexed in Scopus Database)	April 2014
10	E.C.G. Noise Removal and Q.R.S. Complex Detection Using U.W.T.	Electronics and Information Engineering (ICEIE), 2010 International Conference On - ICEIE, Kyoto, Japan.	International (Indexed in Scopus Database)	August 2010
11	An Efficient Approach for Sensor Deployments in Wireless Sensor Network	INTERACT – 2010Sathyabama University, Chennai, India.	International (Indexed in Scopus Database)	Dec' 2010
12	FPGA Implementation of Multiplierless 5/3 Legall DWT Using Lifting Approach	International Conference & Workshop on Emerging Trends in Technology, ICWET- 2011, Mumbai	International (Indexed in Scopus Database)	Feb' 2011
13	Novel Asynchronous Adders	ICWET- 2011, Mumbai	International	Feb' 2011

14	E.C.G. Signal Denoising	1st International Conference on	International	June 2010
	With Undecimated Wavelet	Emerging Trends in Signal		
	Transform by Using	Processing and VLSI design,		
	LabVIEW	GNEC, Hyderabad, India.		
15	Implementation of 24-bit	International Conference on	International	Dec' 2010
	Delta- Sigma Analog-to-	Biomedical Engineering &		
	Digital Converter	Assistive Technologies (BEATs-		
		2010), N.I.T. Jalandhar, India.		
16	Low Power Asynchronous	International conference on	International	Dec' 2010
	Dynamic Adders	mobile internet devices (ICMID-		
		2010), GRIET, Hyderabad, India		
17	Thermistor Linearization	National conference on	National	Dec' 2010
	with Dual Slope Resistance	automation, communication		
	to Digital Converter Using	&computing(NCACC-		
	LabVIEW",	2010),GITAM		
		University, Visakhapatnam		
18	FPGA implementation of	NCACC-2010, GITAM	National	Dec' 2010
	multiplier-less lifting-based	University, Visakhapatnam,		
	2d DWT for 5/3 legal	India.		
	wavelet filter			

5.9. Sponsored research Projects:

S. No	Title	Agency	Period	Grant amount	Ongoing / Completed
1	Design and Implementation of Algorithm for Real-Time Patient Monitoring In Ambulance While Transit Role: Principal Investigator	U.G.C., India	Two Years	Rs. 4.45 Lakh	Completed

5.10: Consultancy Projects: Nil

- 6. Awards / Honors received:-NPTEL STAR Performer Teaching Excellence Award in Aurora's Engineering College, Bhongir.
- 7. Motto: "DO ENGINEERING"