


## FACULTY PROFILE

Name of the Faculty:		PATNALA MADHUKUMAR				
Designation:		Assistant Professor				
Department:		Electronics and Communication Engineering				
Date of Birth:		28 Feb.1980				
AICTE – ID:		1-427048811				
<b>Education</b>		<ul style="list-style-type: none"> <li><b>B.Tech</b> in ECE from Acharya Nagarjuna University in <b>2004</b></li> <li><b>M.E.</b> in Applied Electronics from Sathyabama University in <b>2008</b></li> <li>M.Tech. in Embedded Systems from Jawaharlal Nehru Technological University in 2015</li> </ul>				
<b>Experience</b>		<b>Teaching:</b> 17 Years		<b>Industry:</b> -		<b>Total: 17 Years</b>
		<b>Research:</b> 03 Years		<b>Others:</b> -		
<b>Research Specialization</b>			<b>Embedded Systems, Microwave Filters</b>			
<b>Courses taught</b>		<ol style="list-style-type: none"> <li>1. MP&amp; MC</li> <li>2. Embedded Systems</li> <li>3. Information and Coding Theory</li> <li>4. Digital Logic Design</li> <li>5. Computer Networks</li> <li>6. Linear IC Applications</li> </ol>				
<b>Research contributions</b>						
<b>International/national peer reviewed journals</b>						
S. No.	Title of paper	Journal	Year	Volume	pages	Indexing (SCI/WoS/SCOPUS, Google scholar)
1	Design of Wideband Band Stop Filter using Signal Interference Technique	Grenze International Journal of Engineering and Technology (GIJET)	2023	9	206-210	GS
2	Homegrowns: An E-Commerce Platform for Farmers	Journal of Emerging Technologies and Innovative	2022	9	307-316	GS

		Research (JETIR)				
3	Design and Implementation of Pipelined Reversible Vedic RISC Processor	Journal of Emerging Technologies and Innovative Research (JETIR)	2019	6	622-629	GS
4	Low Power Design for Testability Implementation for Asynchronous FIFO	i-manager's Journal on Electronics Engineering	2018	9	24-28	GS
5	Simulation of Real Time Multiprocessor Static Scheduling Algorithms	i-manager's Journal on Embedded Systems	2018	7	30-36	GS
6	Simulation of Moving Target Indication Filters for Surveillance Applications in MOTR	International Journal of Trend in Research and Development (IJTRD)	2017	4	109-117	GS
7	A Novel Approach For Speaker Identification In Distortion And Rebound Fettle	International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE)	2015	4	1504-1516	UGC Care list
8	Real Time User-Centric Energy Efficient Scheduling in Embedded Systems	i-manager's Journal on Embedded Systems	2014	7	31-38	GS
9	HARSHA: Intelligent Gesture control Mine Explorer (IGME) Robot	Science Q Journal of Computation in Biosciences and Engineering	2014	1(3)	1-6	GS
10	Reduction of Static Power with Minimized Ground Bounce Noise using Triple Phase Sleep Signal Slew Rate Modulator in 45NM Technology	International Journal of Engineering Research and Applications (IJERA)	2014	4	48-52	GS
11	Scalable Digital CMOS Comparator Using a	”, International Journal of	2014	3(6)	1353-1357	GS

	Parallel Prefix Tree with zero detector	Engineering Research & Technology (IJERT)				
12	Design of High Speed Beaumont-Smith Based Carry Select Adder	International Journal of Engineering Trends and Technology (IJETT)	2013	1	892-895	GS
13	Design of a New Cryptography Algorithm using Reseeding-Mixing Pseudo Random Number Generator	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2013	1	284-286	GS
14	Design of High Speed Ladner-Fischer Based Carry Select Adder	International Journal of Soft Computing and Engineering (IJSCE)	. 2013	3	173-176	GS
16	Design of High Speed Kogge-Stone Based Carry Select Adder	International Journal of Emerging Science and Engineering (IJESE)	2013	1	2319-6378	GS
17	An NoC Architecture with GA Based Technique	International Journal of Scientific & Engineering Research (IJSER)	2012	3	1-4	GS

**Books published**

S. No.	Title of the book	Publisher	year
-Null-			

**Book chapters Published**

S.No.	Title of the Chapter	Book title	Publisher	year
-Null-				

**Details of Patents (Filed & Granted)**

S. No.	Applications number	Title of the patent	Date of filing/publishing	Published/granted
-Null-				

**Details of Conferences/FDPs/STTPs/webinars/Workshops Organized**

S.No.	Name of the event	Role	Dates
1			

**Details of Conferences/FDPs/STTPs/webinars/Workshops Participated**

S.No.	Name of the event	Organized by	Dates
1	On-line Course in, "High Performance Computing"	Andhra University incubation council	17 Jul.2023 to 14 Aug. 2023
2	IC2EC 2023- IEEE International Conference	NIT, Uttarakhand	08-09 June. 2023
3	AITC-2023 –Hinweis Hybrid International Conference	Hinweis Research, Mumbai	17-18 Feb. 2023
4	Four Month IUCEE Course on, "Engineering Educators Certification Program Phase-II	Purdue University, USA	Aug – Nov. 2018
5	Three Day Batch-II IUCEE-IIECP Pre-certification Workshop on, "Active Learning"	APSSDC IUCEE-IIECP chapter at GIET, Rajahmundry	12-14 Jul. 2018
6	Four Month on-line course on, "Design Thinking in Engineering Education",	Purdue University, USA	Feb-May 2018
7	Two Day Workshop on, "Introduction to Robotics"	IITB, Mumbai	08-09 Mar. 2018

**Awards/recognitions/achievements**

S.No.	Name of the Award	Awarding body/Society/Organization	Year
1	MBU Chancellors award for Innovation in Teaching & Learning	Mohan Babu University, Tirupati	2023
2	Third Best Poster "Automation of Irrigation by Monitoring and Harvesting Rain" in APICTIEE 2018	SRM University, Vijayawada	2018

3	Quarter finalist India Innovation Challenge Design Contest for proposal titled "Project Quantum"	DST & Texas Instruments anchored by IIM Bangalore	2016
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**Details of project proposals submitted/sanctioned/completed**

S.No.	Title of the Project	Funding body	Submitted/ Sanctioned/ Completed	Amount	Year/ duration
-Nil-					

**Consultancy contribution**

S.No.	Year	Amount	Details
-Nil-			

**Student Project/research guidance**

S.No	Level	Total number	
1	UG	Completed: 34	Ongoing:02
2	PG	Completed:12	Ongoing:00
3	PhD	Completed:-)00	Ongoing:-00

**Administrative experience**

S.No.	Role	Duration (From – to)
1	Departmental TEQIP-II coordinator at SVEC	2017-2019
2	Module and Course coordinators under BOS Committee at SVEC	2016-2023
3	Institution Member for Andhra Pradesh Knowledge Mission at SVEC	2020-2021
4	NBA and NAAC departmental coordinator at SVEC	2016-2022
5	Campus Radio departmental faculty advisor at SVEC	2020-2021
6	Admission and Student welfare/discipline departmental coordinator at SVEC	2018-2022
7	APSSDC Departmental coordinator at SVEC	2020-2023

**Research credentials**

Index/database	ID/Link
Google Scholar	<a href="https://scholar.google.com/citations?view_op=list_works&amp;hl=en&amp;hl=en&amp;user=mq1TjcAAAAAJ">https://scholar.google.com/citations?view_op=list_works&amp;hl=en&amp;hl=en&amp;user=mq1TjcAAAAAJ</a>

SCOPUS	<a href="https://www.scopus.com/dashboard.uri?origin=userDashboard&amp;zone=TopNavBar">https://www.scopus.com/dashboard.uri?origin=userDashboard&amp;zone=TopNavBar</a>
Web of Science	<a href="https://www.webofscience.com/wos/author/record/GLQ-7666-2022">https://www.webofscience.com/wos/author/record/GLQ-7666-2022</a>
Vidwan ID	381586

**Any other relevant information**

PATNALA MADHUKUMAR  
14 Sept. 2023