BINDU MADHAVI K



Name : K BinduMadhavi

Designation : Associate Professor

Joining Date: 04 August 2008

Email: bindum.ece@hitam.org/lead.se@hitam.org

Research Interest	VLSI System Design
Areas of Interest	Low power VLSI Design –System Level Design, T-FETS
Subjects Taught	Analog Communications, Analog Electronics Signals & Systems, Digital signal processing, ElectronicDevices & Circuits, Pulse and Digital Communication Micro Wave Engineering, Electronic circuit Analysis, Digital Logic Design, Control Systems, VLSIDesign
	B.Tech(ECE) in the Year 2003 from MITS, JNTUH, Madanapalle, AP
	M.Tech(VLSI System Design) in the Year 2010 from HITAM, Hyderabad, JNTUH, Telangana Pursuing PhD in Low power VLSI Design
Academic Qualification	at Lovely Professional University, Phagwara, Punjab
	• Working as Associate Professor in the Department of Electronics and Communications Engineering of Hyderabad Institute of Technology and Management, Hyderabad, Telangana, India from August 2008 to tilldate.
Teaching Experience Details (14 Years 2 Months)	 Worked as Assistant Professor in the Department of Electronics and Communications Engineering in JoginpallyBhaskar Rao Engineering College: Aug 2005 to July2008
	Worked in the Department of Electronics and Communications Engineering DayananadaSagar College ofBangalore
	International Journals:
	"Strategic Review on Different Materials for FinFET Structure Performance Optimization"in IOP Conf. Ser.: Mater. Sci. Eng. 988 01205,2020
Publication Details (International Journals – 11, International Conferences – 2,	"FinFET Technology for Low-Power Applications" book chapter published in Scrivener Publishing 100 Cummings Center, Suite 541J Beverly, MA 01915-6106
National Journal/Conference -3)	"FPGA Implementation on High Speed Video DMA Engine with Integrated IP Subsystem for
	Interfacing to Displays"in International Journal of Research in Advent Technology, Special Issue, NCRCEST 2019 E-ISSN: 2321-9637 ,pp.206-214
	"Minimizing the Sub Threshold Leakage for High Performance CMOS Circuits Using Stacked Sleep Technique" in International Journal of Electrical Engineering. ISSN 0974-2158 Volume 10, Number 3 (2017), pp. 323-335
	"Implementation of Eefficient Convolutional Encoder and modified viterbi decoder "in GE-International Journal of Engineering
	Research Vol. 4, Issue 11, November 2016 ,ISSN(O): 2321-1717, ISSN(P): 2394-420X © Associated Asia Research Foundation (AARF)Publication,pp.18-30

	"Design of Supergate based on Grapbased Transistor Network" in International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), ISSN 2394-3777
	(Print), ISSN 2394-3785 (Online), Vol. 4, Special Issue 2, January 2017,pp.121-126
	"A New VLSI Architecture of Power Efficient Nonvolatile Lookup Table Design Based on RRAM "in International Journal of professional engineering studies, Volume 9 /Issue 3 / OCT
	2017,pp. 108-113
	VLSI design of reconfigurable filter for high speed application" in International journal of professional engineering studies, Volume VI /Issue 5 / SEP 2016 ,pp.297-302
	"Pulse Oximeter System" in International Journal of Engineering Research and General
	Science Volume 2, Issue 5, August-September, 2014, ISSN 2091-2730, pp.365-368
	"Derating Analysis for Reliability of Components" in International Journal of Engineering Research and General Science, Volume 2, Issue
	5, August – September 2014 ,ISSN 2091-2730 ,pp.39-43
	"Secure Transmission for Nanomemory using EG-LDPC" in International Journalof
	Engineering Research and Applications (IJERA) ISSN: 2248-9622 ,Vol. 2, Issue 2,Mar-Apr 2012, pp.292-299
	"Harmonic Signal Generator Based On Direct Digital Synthesizer And SOPC"In International
	JournalofEngineeringResearchandApplications(IJERA),ISSN:2248-9622,Vol.2,Issue 2,Mar-Apr 2012, pp.987-993
	"Designing of Efficient Online Testable Reversible Multiplexers and DeMultiplexers with New
	ReversibleGate"inInternationalJournalofEngineeringResearchandApplications(IJERA)
	,ISSN: 2248-9622 ,Vol. 2, Issue 2,Mar-Apr 2012, pp.183-191
	International Conferences:
	IEEE WIE CONGRESS 2013 IEEE SSC,Osmania University in the year 2016 and IEEE SSC at JNTUH in the Year 2018
	CONCAVE 2K15
	National Conferences:
	IEEE WIE CONGRESS 2017 IEEE SSC,Osmania University
	ICITEE Conferene-2016, 2018
	Guidance of Post Graduate, M. Tech (CAD/CAM-Robotics) Projects -10 – Completed, 4 – UnderProgress
Research Scholars	• Guidance of Under Graduate Projects 16 – Completed, 2 – UnderProgress
	· IIEECP certification from IUCEE for Innovative TeachingPedagogy
Awards &Honours	OBE Certification from IUCEE for Outcome Based Education course
	. Won the IEEE Photo Contest for IEEE HITAM Student Branch with Prize Money of 500\$
Workshops / Seminars /	Organized BLIS 2K15,2K16,2K17,2K18
Conferences / Training Programs	As IEEE WIE Facilitator organized many events such as IEEE day, STAR Program, Women's Day,
Conducted	Incharge for HITAM Initiatives such as Affinity Clubs, Student Selgf Governance, Sahaya- NGO, For A Cause - NGO