


## Profile

Name of the Faculty		KOMMA ANITHA					
Designation		Associate Professor					
Department		ECE					
Date of Birth		01/05/1969					
DOJ the Institution		01/05/2012					
Employee ID		ECE040537					
Address for communication		Flat No: 208, A1 Block, Venkatram Grand, Ramapuram Colony Road, Poranki, Krishna Dt., Pin code: 521137		Permanent Address		Flat No: 208, A1 Block, Venkatram Grand, Ramapuram Colony Road, Poranki, Krishna Dt., Pin code: 521137	
Mobile No		9490647666		Email-ID		Danithakomma@pvpsiddhartha.ac.in	
AICTE Unique ID		1-1478391003				AAPAR ID : 69345365918	
Education Qualifications		UG	PG	Ph.D	Others		
		B.Tech.	M.E				
Work experience		Teaching	Research			Industry	Others
		28 years				2	
Area of Specialization		Communication Systems					
Courses taught at Under Graduate/ Post Graduate Level: (full course title only) Signals and Systems Digital Signal Processing Switching Theory and Logic Design Pulse and Digital Circuits Digital Integrated Circuits Digital Logic Design Linear Integrated Circuits							
Professional Memberships & ID's : IETE- M234490, ISTE- LM53242, ISSE- LM03636							
Research Publications & Guidance	National Journals	International Journals	National Conferences	International Conferences	Patents	Books / Book chapters	
	-	25	6	8	4	1	

<p>Details of Paper Publications (In IEEE Format only Descending order)</p>	<p><b>Journals:</b></p> <ul style="list-style-type: none"> <li>• Santi Kumari Behera, Komma Anitha, Rajat Amat, Prabira Kumar Sethy, “<i>ResNet101-SVM: Hybrid Convolutional Neural Network for Citrus Fruits Classification</i>” in Journal of Intelligent &amp; Fuzzy Systems, Vol 46, No. 3, pp 7035-7045, March 2024</li> <li>• Mohammed Naseer Baig, Vanga Ganesh Sai Kartheek, Peddibhotla Satya Kowmudi, Rajulapati Pradeep, Komma Anitha, “<i>Power-Optimized Approximate Multiplier with Tunable Accuracy</i>” in Tuijin Jishu/Journal of Propulsion Technology, Vol. 44, No. 6, pp 6650-6659, Dec 2023</li> <li>• Gyana Ranjana Panigrahi, Nalini Kanta Barpanda, Komma Anitha, Shanti Rathore, Preesat Biswas, Prabira Kumar Sethy, “<i>Adaptation issues of Machine Learning in Safety Digitization</i>” in Indonesian Journal of Electrical Engineering and Computer Science, Vol 29, No. 3, pp 1802-1808, March 2023</li> <li>• Baby Barnali Pattanaik, Komma Anitha, Shanti Rathore, Preesat Biswas, Prabira Kumar Sethy, Santi Kumari Behera, “<i>Brain tumor magnetic resonance images classification based machine learning paradigms</i>” in Contemporary Oncology, Vol 26, Issue 4, pp 268-274, January 2023</li> <li>• Prabira Kumar Sethy, S.Shanthi, Komma Anitha, A.Geetha Devi, Preesat Biswas “<i>Breast Cancer Detection Using Bimodal Image Fusion: Thermography and Mammography Images</i>” in Onkologia i Radioterapia, Vol 16, Issue 6, pp 001-005, June 2022</li> <li>• K.Anitha, M.Srinivasa Rao “<i>Convolutional Neural Network Based Plant Leaf Disease Detection</i>” Stochastic Modeling &amp; Applications (UGC CARE Approved Journal), Vol 26, No.3, pp. 302 - 309, January – June 2022</li> <li>• Prabira Kumar Sethy, Santhi Kumari Behere, Komma Anitha, Chanki Pandey, M.R.Khan “Computer aid Screening of COVID-19 using X-ray and CT scan Images: An Inner comparison” Journal of X-Ray Science and Technology, Vol29, No.2, pp 197-210, March 2021</li> <li>• K.Anitha, M.Srinivasa Rao, G.PavanTeja Tiwari, A.L.Hemanth Kumar “<i>Image Analysis for Face Recognition Using PCA</i>” TEST Engineering and Management magazine, Vol 83, pp. 7639 -7644, March – April 2020</li> <li>• K.Anitha, M.Srinivasa Rao “<i>Discrete Extended Kalman Filter Based Ultrasonic Time-Of-Flight Estimation</i>” International Journal of Engineering Research and Application, Vol 8, Issue11(part-I), pp. 31-37, November 2018</li> <li>• K.Anitha, M.Srinivasa Rao “<i>FPGA Based Controller Design for Mobile Robots</i>” International Research Journal of Engineering and Technology, Vol 5, Issue10, pp. 1494-1498, October 2018</li> <li>• M.Srinivasa Rao, K.Anitha “<i>Improving the Uplink Achievable Rate and Power Allocation in LTE-Advanced Networks</i>” International Journal of Engineering and Science Research, Vol 8, Issue10, pp. 36-42, October 2018</li> </ul>
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	<ul style="list-style-type: none"> <li>• M.Srinivasa Rao, K.Anitha “<i>Improved Performance of Turbo Codes using Iterative Decoding with Additional Convolutional Interleaver</i>” Journal of Emerging Technologies and Innovative Research, Vol 5, Issue10, pp. 373 -378, October 2018</li> </ul> <p><b>Conferences:</b></p> <ul style="list-style-type: none"> <li>• Komma Anitha, Kiran Kumar Gopathoti, J. Rajeswari “ FPGA Implementation of Arbiter PUFs for Ideal Cryptographic Key Generation” in the 5<sup>th</sup> International Conference on Electronics, Communication and Aerospace Technology (ICECA-2021) 2<sup>nd</sup> to 4<sup>th</sup> December 2021</li> <li>• K. Anitha, M.Srinivasa Rao, D.D.S.Tejaswi, B.Bhargavi “<i>Digital Signature Verification using Deep Learning</i>”, Proceedings of the International Conference on Recent Challenges in Science, Engineering and Technology (ICRCSET–2020) 28<sup>th</sup>&amp; 29<sup>th</sup>February 2020</li> <li>• K. Anitha, M.Srinivasa Rao, G.Pavan Teja Tiwari, A.L.Hemanth Kumar “Image Analysis for Face Recognition Using PCA”, Proceedings of the International Conference on Recent Challenges in Science, Engineering and Technology (ICRCSET–2020) 28<sup>th</sup>&amp; 29<sup>th</sup> February 2020</li> <li>• K. Anitha, V.Vamsi Sudheera “<i>A Robust Ultrasonic Distance Measurement System with Discrete Extended Kalman Filter</i>”, Proceedings of the IEEE International Conference on Electrical, Electronics, Signals, Communication and Optimization (EESCO) 24<sup>th</sup>&amp; 25<sup>th</sup> Jan 2015</li> <li>• Kamma Srinivasa Rao, Kantamneni Kranthi, K. Anitha, Dr P.Rajesh Kumar “<i>Serpentine – A rescue Snake Robot</i>”, 7<sup>th</sup> IEEE International Conference on Industrial and Information systems (ICIIS) 6<sup>th</sup>-9<sup>th</sup> Aug 2012</li> </ul>
Details of Patents Published / Granted	<p><b>Published:</b> Application Number: 202041047698A Publication Date: 13/11/2020 Title: Online Teaching System using Artificial Intelligence and Digital Pad</p> <p>Application Number: 202341035664 A Publication Date: 16/06/2023 Title: Bank Locker Security System using Embedded Systems</p> <p><b>Granted:</b> Design Number: 363881-001 Date: 30/09/2022 Title: Multi-Directional Baby Carrier</p> <p>Design Number: 384552-001 Date: 22/04/2023 Title: Lower Limb Prosthetic</p>
Details of Certification Courses / Workshops / STTP's / FDP (participated / organized)	<ul style="list-style-type: none"> <li>• Attended a five day FDP on “Health, Happiness and Wellbeing” organized by FED, PVPSIT from 09/03/25 to 13/03/25</li> <li>• Attended a five day FDP on “AI for Engineering Applications” organized by NITTTR, Chandigarh from 04/11/24 to 08/11/24</li> </ul>

	<ul style="list-style-type: none"> <li>• Attended a five day FDP on “IOT and Embedded Systems” organized by NITTTR, Chandigarh from 23/10/24 to 27/10/24</li> <li>• Attended an Eight day FDP on “Micro strip Patch Antenna Design Techniques &amp; Tools” organized by NITTTR, Chandigarh from 13/09/24 to 20/09/24</li> <li>• Attended a six day FDP on “Semiconductor Devices, Modelling &amp; Circuit Technology” organized by Lendi Institute of Engineering &amp; Technology from 19/08/24 to 24/08/24</li> <li>• Attended a Nine day FDP on “Online NEP 2020 Orientation &amp; Sensitization Programme” organized by Osmania University, Hyderabad from 24/06/24 to 02/07/24</li> <li>• Attended a six day FDP on “Unlocking Innovation: Exploring Intellectual Property Rights” organized by Dept. of MBA, PVPSIT from 16/05/24 to 21/05/24</li> <li>• Attended a six day FDP on “Impact of AI: Robotics, VLSI and Medical Domains” organized by VVIT, Nambur from 22/04/24 to 27/04/24</li> <li>• Attended a five day FDP on “5G and Beyond” organized by NITTTR, Chandigarh from 05/02/24 to 09/02/24</li> <li>• Attended a 12-day FDP on “Neural Networks and Fuzzy Logic” organized by NITTTR, Chandigarh from 21/08/23 to 01/09/23</li> <li>• Attended a five day FDP on “Funding Opportunities in Engineering” organized by NITTTR, Chandigarh from 24/07/23 to 28/07/23</li> <li>• Attended a five day FDP on “Emerging Trends in Multimedia Processing &amp; Security” organized by NIT, Patna from 03/07/23 to 07/07/23</li> <li>• Attended a six day FDP on “Applications of Computer Vision using Deep Learning” organized by GEC, Gudlavalleru from 20/02/23 to 25/02/23</li> <li>• Attended a five day FDP on “Yoga in Daily Life” organized by Dept. of CSE, PVPSIT from 13/02/23 to 17/02/23</li> <li>• Attended a five day FDP on “Thesis and Research Paper Writing” organized by NITTTR, Kolkata from 30/01/23 to 03/02/23</li> <li>• Attended a five day FDP on “Enhancing Research Capabilities for Academic Career Progression” organized by NITTTR, Chandigarh from 05/09/22 to 09/09/22</li> <li>• Attended a five day FDP on “Medical Image Processing” organized by NIT, Warangal from 22/08/22 to 02/09/22</li> <li>• Attended a five day FDP on “Advances in Signal Processing” organized by LBRCE, Mylavaram from 04/04/22 to 08/04/22</li> <li>• Attended a five day FDP on “Advanced Signal Processing, Communications using AI &amp; ML Techniques” organized by GMRI, Rajam from 21/03/22 to 25/03/22</li> <li>• Attended a six day FDP on “Trends and Challenges in Advanced VLSI System Design” organized by SRKR Engineering College, Bhimavaram from 21/02/22 to 26/02/22</li> <li>• Attended a six day FDP on “Machine Learning Trends &amp; Applications” organized by JNTU, Kakinada from 27/09/21 to 02/10/21</li> <li>• Attended a five day FDP on “Research Methodology and IPR” organized by VRSEC, Vijayawada from 13/09/21 to 17/09/21</li> <li>• Attended a five day FDP on “Smart Cities” organized by NIT, Silchar from 11/01/21 to 15/01/21</li> <li>• Attended a five day FDP on “Systems Engineering” organized by</li> </ul>
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	<p>NIT, Kurukshetra from 04/11/20 to 08/11/20</p> <ul style="list-style-type: none"> <li>• Attended a 13-day FDP on “Professional Morals, Work Ethics, Accountability for Teachers in Technical Education” organized by VRSEC, Vijayawada from 19/10/20 to 31/10/20</li> <li>• Attended a six day FDP on “Innovative Teaching and Learning Methods for Inspiring Students” organized by SRKR, Bhimavaram from 12/10/20 to 17/10/20</li> <li>• Attended a six day FDP on “Technologies with Social Relevance” organized by GMRIT, Rajam from 27/07/20 to 01/08/20</li> <li>• Attended a five day FDP on “Research Trends in Image Processing with Machine Learning and Deep Learning” organized by Pullareddy Engineering College from 21/07/20 to 25/07/20</li> </ul>
Details of Projects Applied / Awarded	<p>Name of The RPS Project: Development of Socially Assistive Robot for Elders &amp; Physically challenged</p> <p>Principal Investigators: Dr P.Rajesh Kumar, Mrs K.Anitha</p> <p>Grant Amount: 8.75 Lakhs</p> <p>Year of Grant: 2013</p>
Any Other information	--