


## Faculty Profile

Name of the Teaching Staff	Dr. RAJKIRAN BALLAL I	
Department	Electrical and Electronics Engineering.	
E-mail	Rajakiranballal.i@cittumur.org	
Present Designation	Professor	
Google Scholar ID		
ORCID	<a href="https://orcid.org/0000-0002-4209-0206">0000-0002-4209-0206</a>	
VIDWAN ID	206922	
Education Qualifications	<ol style="list-style-type: none"> <li>UG : B.Tech</li> <li>PG : M.E</li> <li>Ph.D: Power Electronics</li> </ol>	
<b>Work Experience in Years</b>		
Teaching	39	
Research	7	
Industry	1	
Other	0	
Total	40	
Area of Specialization	Electrical machines, Power Electronics	
Publication Details	<p><b>National Conference:</b></p> <ol style="list-style-type: none"> <li>1) RajkiranBallal, Dr. Shreesha, Dr. Udaykumar R.Y “A Novel method of maximum power point tracking in a Photovoltaic Systems”, Paper presented at AICTE sponsored National Conference “CCIS-2004” held at Govt college of Engg., Fermagudi, Goa on 23 and 24<sup>th</sup> of January 2004 , Vol1 pp 109-112.</li> <li>2) Rajkiran Ballal, Dr. Shreesha, Dr. Udaykumar R.Y, Dr. VP sundarsingh, “ Loss Analysis Of Generation Control Circuit for Photo Voltaic Modules”Paper Presented at IEE sponsored National Conference PEPEM05 held atThapur Institute Of Engineering &amp; Technology Patiala-147004- Punjab during 28<sup>th</sup> to 29<sup>th</sup>of January 2005.Page No. 108-111</li> </ol> <p><b>Note:This paper has won one of the Best Technical Paper Award at the conference.</b></p> <ol style="list-style-type: none"> <li>3) RajkiranBallal, Dr. Shreesha, Dr. Udaykumar R.Y ,”Maximum Power Point Tracking in the photovoltaic Systems” Published in the Proceedings of TEQIP Sponsored National conference On Advances in Electrical Engineering(NCAEE06), held at NMAMIT Nitte.on June 15 &amp;16 2006.</li> <li>4) Satyanarayana, RajkiranBallal “Simplified variable frequency multilevel inverter topology “National conference on Challenges in research and technology in the coming decades on 27<sup>th</sup> and 28<sup>th</sup> September 2013.</li> <li>5) SubrahmanyaBhat, RajkiranBallal “Design, simulation and analysis of 100 watt forward converter for photovoltaic power conditioning system” National conference on Challenges in research and technology in the coming decades on 27<sup>th</sup> and 28<sup>th</sup> September 2013.</li> <li>6) Sowmyasri S.M, RajkiranBallal “A review: Preserving privacy in Wireless sensor networks.”National conference on Challenges in research and technology in the coming decades on 27<sup>th</sup> and 28<sup>th</sup> September 2013.held at SDMIT UJire.</li> <li>7) Sowmyasri S.M, RajkiranBallal “A review: Preserving aware location and privacy preserving data aggregation in wireless sensor networks” UGC sponsored National level seminar on”Parallel and Distributed Processing techniques and Applications” at Saint Philomena College Puttur on 14-02-2014.</li> <li>8) Antheesh R, Dr. RajkiranBallal,” Retrospect on Super Capacitor”, presented at National conference held at AIT Chickmagaloor on 29<sup>th</sup> and 30<sup>th</sup> January 2016.</li> </ol> <p><b>International Conference.</b></p> <ol style="list-style-type: none"> <li>1) RajkiranBallal, Dr. Shreesha, Dr. Udaykumar R.Y, AnanthNayak, “A Novel method of Fuzzy based Maximum Power Point Tracking For Photovoltaic systems” Published at the proceedings of International Conference ICIT 2005, to be held at City University Hong Kong, during 4-12-05 to 7-12-2005. FP 2-37. PP 1471-1476.</li> </ol>	

	<p>2) Rajkiran Ballal, Dr. Shreesh, Dr. Udaykumar.Y, "Maximum Power point tracking of a grid connected photovoltaic system: presented and published at ICEE 2009, Paper. No EEE 337, Session no: XI at PEC Pondicherry.</p> <p>3) IOP Conference Series: Materials Science and Engineering PAPER • OPEN ACCESS Experimental Investigations of Load Characteristics of Induction Motor Drive To cite this article: Mr. Ajithanjaya Kumar et al 2021 IOP Conf. Ser.: Mater. Sci. Eng. 1065 012046.</p> <p>4) Antheesh R, Dr. Rajkiran Ballal I, Dr. Subrahmanya Bhat, "Performance Investigation of Single Phase Capacitor Start Capacitor Run Induction Motor Drive", IOP Conf. Series: Materials Science and Engineering 1065 (2021) 012043, doi:10.1088/1757-899X/1065/1/012043</p> <p>5) Rahul C Pasar, Rajiran Ballal, "Implementation of Dual axis tracker with self-cleaning mechanism for Solar panel with Analysis under different partial shading conditions- Presented at NK Conference during 2022.</p> <p>6) Ajithanjaya Kumar M K, Dr Rajkiran Ballal, Sanath Saralaya, Sathyendra Bhat J Novel Adaptive Learning Rate Back Propagation Neural Network based Online Rotor and Stator Resistance Estimator for Sensorless Induction Motor Drives; Presented at ERCICA 2023 held at NMIT Bangalore February 2023.</p> <p>7) Ch V Ramesh. Sudeep Shetty, Shreeram V Kulkarni and Rajkiran Ballal, "Design and Implementation of Flyback Converter Topology for Dual DC" Presented at ERCICA 2022 held at NMIT Bangalore.</p> <p>8) Ajithanjaya Kumar M K, Dr Rajkiran Ballal, Sanath Saralaya, Sathyendra Bhat J Novel Adaptive Learning Rate Back Propagation Neural Network based Online Rotor and Stator Resistance Estimator for Sensorless Induction Motor Drives; Presented at ERCICA 2023 held at NMIT Bangalore February 2023.</p> <p><b>International Journal:</b></p> <p>1) RajkiranBallal, Dr. Shreesh, Dr. Udaykumar" A Novel method of Maximum Power point tracking of a grid connected photovoltaic systems: International journal of Engineering Research and Industrial applications (IJERIA), Volume 2, No.IV, 2009, pp 01-11.</p> <p>2) Satyanarayana, RajkiranBallal, Girish Kumar, Laxmisagar" Effect of light concentration by flat mirror reflectors on the electrical power output of the photovoltaic panel" Carbon Science and Technology, Volume 6,ISSN:0974-0546, -2014 pp:356-363.</p> <p>3) Sowmyasri S.M, RajkiranBallal "Conceptual Design of Location monitoring system to preserve privacy in Wireless Sensor Networks:, International Journal of Modern Trends in Engineering and Technology (IJMTER), ISSN (On line) 2349-9745, ISSN (print) 2393-8161, Vol 02, Issue 06, June 2015, pp 50-58, Impact factor 1.711.</p> <p>4) Antheesh R, Dr. Rajkiran Ballal I, "Enhancement of Performance of Energy Storage System using Supercapacitor", International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211 Volume 10, Issue 6, June-2022, Impact Factor: 7.429,</p> <p>5) Antheesh R, Dr. Rajkiran Ballal I, "Retrospect on Supercapacitors" to International Journal of Scientific &amp; Engineering Research -IJSER (ISSN 2229-5518)</p> <p>6) Antheesh R, Dr. Rajkiran Ballal I, "Modeling and simulation of different types of supercapacitor models suitable for dynamic studies", to International Journal of Renewable Energy Research (IJRER)- 1309-0127.</p> <p>7) Ajithanjaya Kumar M K <sup>1*</sup>, Dr Rajkiran Ballal <sup>2</sup>, Dr Sanath Saralaya <sup>3</sup>, Mr Sathyendra Bhat J <sup>4</sup> and Dr Athokpam Bikramjit Singh <sup>5</sup> "Novel Advanced Artificial Neural Network-Based Online Stator and Rotor Resistance Estimator for Vector-Controlled Speed Sensor less Induction Motor Drives. MDPI 2024</p>
Professional Memberships	ISTE Life member: LM7707
No. of Books published with details	NIL
Book Chapters published	M. K. Ajithanjaya Kumar, Rajkiran Ballal, Sanath Saralaya, and J. Sathyendra Bhat "Adaptive Learning Rate Back Propagation Neural Network-Based Online Rotor and Stator Resistance Estimator for Sensorless Induction Motor Drives". Advances in Communication and Applications Proceedings of ERCICA 2023, Volume 2 pp: 557 - 573.
Books Published	0
Reviewer in Journal/Conference	AREEV @ NMAMIT Nitte and ERCICA @ NMIT Bangalore
Patents	0
Academic & Administrative Responsibilities	Principal at SDMIT Ujire and MMCT Mangalore. Ex Member of BOE and BOS at Goa University, NMAMIT Nitte, NMIT Bangalore
FDPs & Workshops Attended	20

Awards & Achievements Received	nil
Ph.D Research Scholar Details	<b>Guided /Awarded</b>
	Candidate Name : Dr. Sathyanarayana P, Dr. Subrahmanya Bhat, Dr. Sowmyashree and Dr. Antheesh
	USN :5VX11PEN51, 5VX11PEN47, 5VX12PEN42, 5VX15PEJ69
	Title :
	Year of Award :2019, 2020,2019,2023
	<b>Ongoing</b>
	Candidate Name : Ajithanjaya kumar M.k
	USN :5VX17PES54
	Title :Sensorless Induction Motor Drive Using Artificial Intelligent Techniques
	Year of Registration :2017
<b>Research/Sponsored Projects</b> Funds Received & Projects Completed	Name of the Project :
	Funds Received :
	Sponsoring Agency :
	Sanctioned Year :
	Current status of the Project (Completed/Ongoing) :
Student Funded Projects Guided	Sponsoring Agency (KSCST/VTU/Others, Please Specify) :
	Funds Received :
	Title of the Project :
	Sanctioned Year :
Any other accomplishments	