


# Faculty Profile

<p><b>Dr. BIJI G.</b> Assistant Professor, Dept. of Electrical &amp; Electronics Engineering</p>	
<p>Phone : 9496119870 Email : bijig@gecbh.ac.in</p>	
<p><b>Qualifications</b></p>	
	<p>Ph.D-Biomedical Engineering(2022) M. Tech ó Power System (2004) B. Tech ó Electrical and Electronics Engineering(2000)</p>
<p><b>Area of Interest</b></p>	
	<p>Power System ,Control System, Engineering Electro magnetics, Power Electronics, Image Processing.</p>
<p><b>Professional Experience</b></p>	
	<p>Lecturer, P.A.AZIZ College of Engineering,Trivandrum(2004-2007) Lecturer, LBS Engineering College of Engineering, Kasaragod (2007-2010) Assistant Professor, IHRD Engineering College of Engineering, Attingal (2010-2012) Assistant Professor, GEC Kannur (2012-2014) Assistant Professor, CET (2014-2016) Assistant Professor ,GECBH (2016 onwards)</p>
<p><b>Recently taught courses</b></p>	
	<p>Power System ,Control System, Engineering Electromagnetics, Modelling of Electrical Machines, Engineering Drawing ,Basic Electrical Engineering, Power Electronics, Power Electronic Applications in Power systems</p>
<p><b>Other responsibilities</b></p>	
	<ul style="list-style-type: none"> <li>• Lab in Charge (Software Lab,Electrical Workshop,Electrical Measurements Lab)</li> <li>• Additional Chief Supdt in KTU Exam</li> <li>• Secretary College Council</li> <li>• Member of Womenø forum</li> <li>• Member of intellectual property cell</li> <li>• Coordinator of ASAP</li> </ul>
<p><b>Important Publications:</b></p>	
<p><b>Papers Presented in National Conferences</b></p>	
<p>1</p>	<p>Biji G.,“High Efficiency Resonant Converter topologies for Domestic Induction Heating”, 4th National Technological Congress Kerala, NATCON, 20-21 February 2014, pp.264-269.</p>
<p><b>Papers Presented in International Conferences</b></p>	
<p>1</p>	<p>Biji G,“An Efficient Peripheral Blood Smear Image Analysis Technique For Leukemia Detection”, <i>IEEE Proceeding in International conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC 2017), Vol-3, No-17, Pages: 259 - 264, February 2017</i></p>
<p>2</p>	<p>Biji.G, “Microcontroller based hybrid power system using Renewable energy sources”, International Conference on Advanced Computing (ICACCT-2014),TKM College of Engineering,Kollam.</p>
<p>3</p>	<p>Biji G.,Unnikrishnan.M., “Hybrid Series active filter for Mitigating Power Quality Problems”, International Conference on Energy,Communication,Data Analytics &amp; Soft Computing ICECDS, 1-2 Aug 2017, pp.242-250</p>

4	Rahulkrishnan R; Sini Sreekumar; Jyothis J Joy; Akbarsha Akbarsha; Biji G., "Implementation of Enhanced Power Quality Electric Vehicle Charging System with Zeta Topology", 2021 International Conference on Computational Performance Evaluation (ComPE) Dec 2021
<b>Papers Published in International Journals</b>	
1	Biji G, "Modelling And Simulation of PV Based Pumping System For Maximum Efficiency", IEEE Proceeding on EPSCICON, Vol-2, No-3, Pages: 1 - 6, January 2012
2	Biji G,"ANN Based Maximum Power Point Tracker For Photovoltaic Pumping Sytem", IOSR-JEEE JOURNALS, Vol-5, No-3, Pages: 25 - 32, November 2012
3	Biji G ,Vidyalekshmi.P, "High Efficiency AC-AC Boost Resonant Converter For Domestic Induction Cooking", ISJSET JOURNALS, Vol-4, No-17, Pages: 15 - 21, May 2014
4	Biji G ,Dr.S.Hariharan., "White Blood Cell Segmentation Techniques in Microscopic Images for Leukemia Detection", IOSR Journal of Dental and Medical Sciences (IOSR-JDMS), Vol-2, No-15, Pages: 45 - 51, February 2016
5	Biji G, "Leukocyte Segmentation and Classification Techniques for Leukaemia Detection", International Journal of Electronics, Electrical and Computational System IJEECS , Vol-5, No-6, Pages: 246 - 252, May 2017
6	Biji G ,Dr.S.Hariharan., "An Efficient Automatic Segmentation Method For Leukocytes", International Journal of Image Processing (IJIP), Vol-3, No-12, Pages: 83 - 89, August 2018
7	Biji G, "Blood smear analysis for Acute Leukemia Detection-machine learning approach", International Journal of Recent Trends in Engineering & Research (IJRTER), Vol-12, No-4, Pages: 1 - 9, December 2018
8	Biji G.,Unnikrishnan.M., "Power Quality Improvement of Single Phase Distribution System Using Hybrid Series Active Power Filter", International Journal Of Advanced Research Trends In Engineering And Technology(IJARTET) Volume 4, Special Issue6, April 2017, ISSN 2394-3777(Print) ISSN 2394-3785(Online)
9	Biji G, "White blood cell components separation for haematological Disease detection", published in book chapter of SPRINGER Lecture notes in Electrical Engineering LNEE(SCOPUS indexed), vol 700,page:25-34,March 2021