ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi & Affiliated to JNTU Kakinada)
Accredited by NAAC & An ISO 9001:2015 Certified Institution
ITI Road, ALC Campus, VIJAYAWADA - 520 008 :: Website : www.aliet.ac.in :: Ph : 0866 - 2476161

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FACULTY PROFILE

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Name of the Faculty	**Mr. Krishna Mohan Tatikonda**	
Designation	**Associate Professor**	
Department	**Electrical & Electronics**	**Date of Birth** 02/06/1988
Date of Joining the Institution	**06-06-2013**	**Native place** Mylavaram Andhra Pradesh, India
Academic Qualification with Class/Grade	• Master of Science in Power & Industrial Drives, Dadi Institute of Engg and Tech, Vizag, India Jun.2012 with Distinction. • Bachelor of Science in Electrical & Electronics Engineering, LBRCE, Vijayawada, India, May 2009, with Distinction.	
	• **Intermediate** from M.V.R Jr. College during (200 2005) Secured **89%.** • **X class** from Z.P. High school, Mylavaram Secured **77.6%** (SSC, Board of Secondary Education).	
Professional Qualification	• A two week staff development program on "**Soft Computing Application to Power System and Control Matlab**" conducted at AITAM, Tekkali.	

Employee ID	**ALIET-13-12**		
E-mail / Mobile	krishnamohan@andhraloyola.org t.krishnamohan02@gmail.com 9908039885 / 9676800222		
Total Experience in Years	**Teaching: 8 years**	**Indus trial:**	**Research:**
Papers Published in Journals -	**SCOPUS-1** **UGC – 3** **A Peer-Reviewed- 5**	**Chapters in Books: 2**	
Faculty Development Programmes attended:	**41**	**Guest Lectures Delivered: 3**	
Papers presented in Conferences/ attended	**National: 6**	**International: 10 / Workshops: 6**	
PhD Guide? Give field & University	**Field: ---** **Supervisor**	**University: --**	
PhDs / Projects Guided	**PhDs:** **MPhil -**	**Projects at Masters Level:** **Projects at UG Level: - 22**	
Books Published/IPRs/Patents/Chapters?	• **Chapter in Advances in Electrical Technology published by Mcgraw hill Education, in the year 2015.** • **Chapter in Microgrid Technologies published by Willey Publications in 2020.**		
Professional Memberships - 2	• **One of the SCIENTIFIC COUNCIL MEMBER of the International Association of Engineering & Technology for Skill Development.** • **Life Time SCIENTIFIC COUNCIL MEMBER of the International Society for Research and Development.**		
Editorial Board Membership -	• **One of the EDITORIAL BOARD MEMBERS in International Journal Of Electrical and Electronics Engineering Advanced Research(IJEEEAR)** • **One of the TECHNICAL BOARD MEMBERS in International Journal of Engineering Research and Innovative Applications (IJERIA)** • **One of the REVIEWER for International Journal of International Journal Of Electrical and Electronics Engineering (IJEEE)** • **One of the REVIEWER for International Journal of International Journal Of Engineering Research (IJER)** • **One of the REVIEWER for Transactions of Engineering Science Journal (TES)**		

	• **One of the REVIEWER for International Journal of Advanced Technology in Engineering and Science (IJATES)** • **One of the REVIEWER for International Journal of Advanced Technology in Engineering and Science (IJARSE)**
Subjects handled for B. Tech Students	• **Control Systems** • **Power Electronics.** • **Grid Interconnection.** • **Flexible AC Transmission Systems.** • **Renewable Energy Sources.** • **Electric Drives** • **Power Quality Improvement** • **Fuzzy Logic & Neural Network**
Conferences/ Seminars / Workshops / FDP Organised @ ALIET	• **National Conference on Emerging Trends in Electircal Technology** (National Conference**)** on Mar 2018 • **National FDP on Application of Labview in 2018** • **National Workshop on Application of Dialux in 2020.** • **National Level FDP on IoT Technology 2018.** • **National Level Workshop on MATLAB Tools in 2017, 2018.**
Any Other Achievements	• Organized Events at **U.G** level. • Organised literary Events.
Other Responsibilities	• **NBA** C-5 coordinator
Whether Ratified by University (Yes/No)	**YES**

Publications:-

- Krishna Mohan Tatikonda, Udaya K. Renduchintala, Chengzong Pang, and Lin Yang, " ANFIS-fuzzy logic based UPQC in interconnected microgrid distribution systems: Modeling, simulation and implementation," 2021 The Authors. The Journal of Engineering published by John Wiley & Sons Ltd on behalf of The Institution of Engineering and Technology, https://doi.org/10.1049/tje2.12005.
- T. Eswara Rao, Krishna Mohan Tatikonda, S. Elango, and J. Charan Kumar, "MICROGRID TECHNOLOGIES", Edited by C. Sharmeela, P. Sivaraman, P. Sanjeevikumar, and Jens Bo Holm-Nielsen, Scrivener Publishing, ISBN: 9781119710790.
- Tulasichandra Sekhar Gorripotu, Krishna Mohan Tatikonda, B. Omkar Lakshmi Jagan, "Performance Analysis of Grid Synchronization Method for Three-Phase Three-Wire Networks

under Grid Fault Conditions", International Journal of Advanced Science and Technology, Vol. 29, No. 6, (2020), pp. 3451-3458.

- Published a paper titled "A FUZZY CONTROLE SCHEME FOR DAMPING OF OSCILLATIONS IN MULTI-MACHINE SYSTEM USING UPFC" in International Journal for Emerging Trends in Engineering and Development.
- Accepted my paper titled "FUZZY BASED UPFC CONTROL FOR POWER FREQUENCY OSCILLATIONS" in NCACC-2012, GITAM UNIVERSITY, Visakhapatnam.
- Published a paper title of "UNIFIED POWER FLOW CONTROL IN THE PRESENCE OF PSS WITH FUZZY CONTROLLER FOR A MULTI-MACHINE SYSTEM" in International Journal of Engineering and Research Application.
- Published International Journal paper on "MODELING OF THE HYBRID WIND/SOLAR ENERGY SYSTEMS - A NEW RECTIFIER TOPOLOGY", International Journal of Engineering Research and Industrial Applications (IJERIA) Vol. 1 Issue 4, December- 2013 ISSN 2248-9278
- Published International Journal paper on 'Thermal Unit Commitment using Extended Priority List Algorithm', International Journal of Engineering Research & Technology (IJERT) Vol. 2 Issue 10, October- 2013 ISSN: 2278-0181
- Presented a paper 'A New Rectifier Stage Topology for Wind Solar Energy System' A National Conference in GREEN TECHNOLOGY, Visakhapatnam.
- Published International Journal paper on 'A BOOST CONVERTER SUPPLIED BY A COCKCROFT-WALTON VOLTAGE MULTIPLIER', International Journal of Electrical & Electronics Engineering in Advance Research (IJEEEAR).
- Presented a paper 'COMPARISON OF FACTS CONTROLLER FOR POWER QUALITY PROBLEMS IN POWER SYSTEM' 2014 NIT-MTMI International Conference on Emerging Paradigms and Practices in Global Technology, Management & Business Issues December 22-24 , 2014, NIT HAMIPUR.
- Accepted my paper titled "IMPROVEMENT OF POWER QUALITY FOR MICROGRID USING FUZZY BASED UPQC CONTROLLER" in International Conference on Electrical, Electronics, Signals, Communication and Optimization (EESCO) - 2015, Vignan College, Visakhapatnam **(IEEE Explorer)**.
- Published Journal paper on 'A Multi Boost and Full Bridge Converters for Power Management for Hybrid Vehicle by Battery and Super Capacitors', American Journal of Engineering Research (AJER).
- Presented a paper titled "A Neuro-Fuzzy Controller for Multilevel Renewable Energy System" in International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) - 2016, DMI College, Chennai **(IEEE Explorer)**.

- Presented a paper titled "Power Quality Improvement of Grid Connected Photovoltaic System Using Statcom Controller" in International Conference on Computer Electronics Electrical Mechanical and Civil-2015, Trivandrum.
- Presented a paper titled "SVPWM Based DTC Controller for Brushless DC Motor" in ICCIDM 2016 at KIIT University, Bhubaneswar **(SPRINGER Special Issue)**.
- Presented a paper titled "Power management strategy for SMC based grid connected hybrid fuel cell system" in 40th National Systems Conference - 2016, at NIT Warangal.
- Presented a paper titled "Enhancement of Power Quality in Grid Connected Isolated Power System" in 1st National Conference on Recent Advances in Control of Energy Systems (RACES-2K16), at Sri Sivani Engineering College, Srikakulam.
- Presented a paper titled "Comparison of MPPT Techniques for SEPIC Converter Based Photovoltaic System" in 2016 Online International Conference on Green Engineering and Technologies **(IEEE Explorer)**.
- Presented a paper titled "Modelling of Photo Voltaic Module Under Partial Shaded Conditions using MPPT" in 12th International Conference on Recent Innovations in Science Engineering and Management-2018 at Sri Venkateswara College of Engineering & Technology Srikakulam and published in International Journal of Advance Research in Science and Engineering (IJARSE), (PAGE: 194-204) ISSN:2319-8354,Volume-07 Issue-02, Feb 2018.
- Published a Paper titled, "Performance Analysis of Grid Synchronization Method for
- Three-Phase Three-Wire Networks under Grid Fault Conditions", International Journal of Advanced Science and Technology, Vol. 29, No. 6, (2020), pp. 3451-3458.

Extra Activities:-

- One of the EDITORIAL BOARD MEMBERS in International Journal Of Electrical and Electronics Engineering Advanced Research(IJEEEAR)
- One of the TECHNICAL BOARD MEMBERS in International Journal of Engineering Research and Innovative Applications (IJERIA)
- One of the REVIEWER for International Journal of International Journal Of Electrical and Electronics Engineering (IJEEE)
- One of the REVIEWER for International Journal of International Journal Of Engineering Research (IJER)
- One of the REVIEWER for Transactions of Engineering Science Journal (TES)
- One of the REVIEWER for International Journal of Advanced Technology in Engineering and Science (IJATES)
- One of the REVIEWER for International Journal of Advanced Technology in Engineering and Science (IJARSE)

- Worked as Exam-Cell In-charge in Sri Vani Educational Society from 2010-2011.
- Participated in "National Workshop on Smart Electric Grids" conducted at LBCE COLLEGE, Mylavaram.
- Participated in A two week staff development program on "Soft Computing Application to Power System and Control Matlab" conducted at AITAM, Tekkali.
- One of the SCIENTIFIC COUNCIL MEMBER of the International Association of Engineering & Technology for Skill Development.
- Life Time SCIENTIFIC COUNCIL MEMBER of the International Society for Research and Development.
- Acted as a Resource Person for Three day Faculty Development Program on "Applications of MATLAB in Electrical Engineering", at Sri Venkateswara Engineering College, Etcherla.

KEY COMPETENCIES

- Control Systems
- Mechatronics
- Robotics
- Neural Networks
- Fuzzy Logic
- Power Electronics
- Electrical Sytems
- Digital Logic Design
- Motor Controls
- Grid Interconnection
- MATLAB
- PSPICE
- LabView
- PSCAD

SUMMARY OF COMPETENCIES

- Expertise on designing lab equipment.
- Research on implementation of various control systems.
- Capability to create schematics/designs for electrical and electronic systems.
- Proven ability to draw and interpret drawings and schematics.
- Expertise on robotics.
- Research experience in dealing with robotics and mechatronics.
- Proficient in designing analog control circuits.
- Good computer skills and proficient in MS Office including Microsoft Visio for drawing schematics.

PROFESSIONAL EXPERIENCE

Assistant Professor **June.2013 – Till Date**

ANDHRA LOYOLA INSITUTE OF ENGINEERING AND TECHNOLOGY, INDIA

- Taught Electrical Machines, Digital Logic Design for a class of 60 BSEE students.
- Prepared and maintained detailed lab manuals for Electrical Machines and Power Electronics laboratories.
- Looked after the training and placement activities of students.
- Instructor for soft skills and for interview facing skills for the students using institutional and external expertise.
- Head of Power Electronic Laboratory and Electrical Simulation Laboratory, responsible for experiment layout and equipment maintenance.
- Develop and direct research activity independently which includes data collection, evaluation and analyses for research