

## Dr.Siddappaji.M.R

Professor, Dept. of Electrical and Electronics Engineering, SIT

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### Education

	Degree	Year	Institute
1	Ph.D.	2024	Visvesvaraya Technological University (VTU), <b>Belagavi.</b>
2	M.Tech.	2012	Shri Siddhartha Institute of Technology , <b>Tumakuru.</b>
3	B.E.	2010	Channabasaveshwara Institute of Technology, <b>Tumakuru.</b>

### Professional Experience

	Date (from-to)	Designation	Organization
1.	Since October 2025	Assistant Professor, Dept. of EEE.	SIT Tumkur, Karnataka, India
2.	March 2024- October 2025	Associate Prof in the SoET, Dept. of EEE.	Sapthagiri NPS University Bengaluru, Karnataka, India
3.	November 2019-March 2024	Assistant Professor, Dept. of EEE	Sir MVIT Bengaluru, Karnataka, India
4.	July 2018-November 2019	Assistant Professor, Dept. of EEE	Dr. SMCE, Bengaluru, Karnataka, India
5.	July 2012-July 2018	Assistant Professor, Dept. of EEE	SIET Tumakuru, Karnataka, India

#### Affiliations of Professional organizations

- MISTE,IAENG,IRED,IJSTE, IOSRD

#### Awards and Honors

- Research Excellence Award-2020 from Institute of Scholar
- Young Research Award-2021 from ESN Publication
- Best Research Award-2022 from Novel Research Academy
- Letter of Appreciations Certificate-2021\_2024 for Academic Excellence from Sir.MVIT-Bengaluru.
- Letter of Appreciations Certificate-2023\_2024 for External Board of Examiner – (BOE Member) for Question Paper Scrutiny at REVA University, Bengaluru.
- VTU Board of Examiner (BOE member) for the academic year 2024-25 at Sir.MVIT-Bengaluru.
- Sapthagiri NPS University Board of Studies (BOS member) for the academic year 2024-25 at SNPSU-Bengaluru.
- Organizing Committee member for National conference on NCESM-2015 at SIET.
- Organizing Committee member for National conference on RTEE-2009 at SIET.
- Organizing Committee member for National conference on SLSTS-2009 at SIET.
- VTU Theory Examination for FLYING SQUAD at AIT, Tumakuru-2016.
- VTU Theory Examination for External DCS at HMSIT, Tumakuru-2016.
- VTU Theory Examination for External DCS at CIT Gubbi , Tumakuru-2017.
- As An Editorial & Reviewer Board Membership of HERTZ in International Journal of Engineering, 2020.
- As An Editorial Board Membership of IOSRD in International Journal of Engineering, 2018.
- As An Advisor Committee member for International Conference on ICIET-18, ICASET-18, ICRAAESCRT-18, ICART-18, ICMESS-20, IFERP, ICACCT-21, RASEFT-25,ICCPES-25,RATES-25.

#### Courses Taught

##### Undergraduate Courses

- Introduction to Electrical Engineering,
- Basic Electrical & Electronics Engineering,
- Computer science & AI techniques,
- Introduction to Python,
- Electric Machine Design,
- Power System & Operation Control,
- Power Electronics,
- Electrical Power Generation,
- Transmission and Distribution,
- Transformer & Induction Machine,
- Microcontroller, RES, CAED, CCED, LIC, AEC, Smart Grid,
- Power system protection, OMSES, T&G, HVE.

## Research Guidance

Sl. No	Name of the Scholar	Title	Year of completion/ carrying out
NIL			

## Research Areas

- Reliability Evaluation of Distribution System
- Fuzzy Logic & Artificial Neural Network
- Artificial intelligence & Renewable Energy Resour

## Sponsored Projects

Sl. No	Name of the Scholar	Title	Year of completion/ carrying out
NIL			

## Publications

### Journals

- Published a research article on “Distributed Generation System Reliability Evaluation using fuzzy Logic with Renewable Energy Sources” International Journal of Mechanical Engineering (IJME-2022), Vol. No.: 7, Issue No.: 06, Pages No.: 410-419, Impact factor: 2.1 and year of publication: 2022, Published Online June -2022 in IJME ISSN: 09714-5823 with Scopus Indexed
- Published a research paper on “Performance of Reliability Indices and Voltage Instability Analysis for Optimal Power Flow Technique with Renewable Energy Resources” International Journal of Engineering Applied Sciences and Technology (IJEAST), 2022, Vol. 6, Issue-09, Pages No.: 130-134, Impact factor 4.987 and year of publication Online Jan 2022 in IJEAST. ISSN: 2455 2143, DOI No.: 10.33564 with Scopus Indexed
- Published a research paper on “Fuzzy Logic to Improve Reliability Indices and Voltage Instability Constraints for Contingency Analysis and Optimal Power Flow with Renewable Energy Sources” International Journal of Engineering Applied Sciences and Technology(IJEAST), 2021, Vol. 6, Issue- 08, Pages No.: 154- 164, Impact factor 4.987 and year of publication Online December 2021 in IJEAST. ISSN: 2455-2143, DOI No.: 10.33564

- Presented & Published a technical paper on “Evaluation of Reliability Indices for Line Loss Reduction & Improvement of Bus Voltage Profile in Distribution System with Optimal Placement of Distributed Generator using Fuzzy Logic” in International Conference on ICNTET-07<sup>TH</sup>& 08<sup>TH</sup> September 2018 in GRT Group of Educational Institutions,, Chennai, Tamilnadu. ISBN:978-1-5386-5630-3/18/\$31.00 ©2018 IEEE
- Presented & Published a technical paper on “Reliability Indices Evaluation and Optimal Placement of Distributed Generation for Loss Reduction in Distribution System by Using Fast Decoupled Method” in International Conference on ICECDS-01<sup>ST</sup>& 02<sup>ND</sup> August 2017 in SKREC, Tamilnadu. ISBN:978-1-5386-1887-5/17/\$31.00 ©2017 IEEE
- Presented & Published a technical paper on “Contingency Ranking and Optimal Placement of DG for Line Loss Reduction In Distribution System to Enhance Reliability” in International Conference on ICECDS- 01<sup>ST</sup>&02<sup>ND</sup> August 2017 in SKREC, Tamilnadu. ISBN:978-1-5386-1887-5/17/\$31.00 ©2017 IEEE
- Published a research paper on “EFFECTS ON HYBRIDIZATION OF INTERLAYER COMPOSITES AND SELF-REINFORCED PLYPROPYLENE” International Journal of Research and Analytical Reviews(IJRAR), October-2015, Vol. 02, Issue-04, Pages No.: 767-778, Impact factor 7.17 and year of publication Online October 2015 in IJRAR.E-ISSN: 2348-1269.
- Published a research paper on “A CFD-GUIDED PARAMETRIC EXPLORATION OF TALL BUILDING CLADDING FORB ENVIRONMENTAL PERFORMANCE ” International Journal of Research and Analytical Reviews(IJRAR), February-2014, Vol. 01, Issue-01, Pages No.: 834-845, Impact factor 7.17 and year of publication Online February 2014 in IJRAR. E-ISSN: 2348-1269.
- Published a research paper on “ENHANCING THE CAPABILITIES OF MICROGRIDS VIA THE USE OF VIRTUAL SYNCHRONOUS GENERATOR CONTROL AND INTEGRATION OF VEHICLE-TO-GRID TECHNOLOGY” International Journal of Research and Analytical Reviews(IJRAR), November-2014, Vol. 01, Issue-04, Pages No.: 745-755, Impact factor 7.17 and year of publication Online November 2014 in IJRAR. E-ISSN: 2348-1269.

#### **Conference Proceedings**

- Presented a technical paper on “Power Distribution Automation System using FLISR Technique” in Emerging Innovative Technologies for a Sustainable World on ICEITSW- 7th-8th October 2013 in SIET, Tumakuru.
- Presented a technical paper on “Power Regulation of WECs & WRIG of Power Factor Improvement” in Emerging Innovative Technologies for Sustainable World on ICEITSW-7th-8th October 2013 in SIET, Tumakuru.
- Presented a technical paper on “Distribution & Automation for a large urban Power Distribution Network” in 8th Control Instrumentation System conference on CISCON-3-6th Nov 2011 in MIT, Manipal.
- Presented & published a technical paper on “Power distribution n/w reliability evaluation using MCS” in National Conference on NCDDEE- 19th&20th sept 2013 in SSIT, Tumakuru. ISBN:978-81-927765-01
- Presented & published a technical paper on “Optimum Placement Decentralized & Real Time Power Dispatch Of Islanded Micro-grids with

- RES” in National Conference on NCESM- 2015 in SIET, Tumakuru. ISBN:978-81-923066-6-7
- Presented a technical paper on “Distribution on PLC” in IEEE-23rd April 2010 in CIT, Tumakuru.
- Presented a technical paper on “Distribution on PLC” in ISTE-29th& 30th April 2010 in HMSIT, Tumakuru.
- Presented a technical paper on “Power Quality Monitoring on Distribution Networks using DAS” in 8th ISTE/Knew- 14th& 15th October 2011 in CIT, Tumakuru.
- Presented a technical paper on “Micro controller Based Single phase induction motor speed control using GSM technology” in 4th National Conference on AECT- Feb 03-05th 2011 in MIT, Manipal.
- Presented a technical paper on “Rotor Fault Detection of Electrical Machines by Low Frequency Magnetic Stray Field Analysis” in National Conference on ESEI-Feb 18-19th 2011 in BMS, Bengaluru.
- Presented a technical paper on “Unified Power Quality Conditioner (UPQC) in Three-Phase Four-Wire Distribution System” in National Level Technical Symposium KNEW-March 30-31st 2011 in CIT, Tumakuru.
- Presented a technical paper on “Distribution Bus Voltage Control using DVR under the Supply Frequency Variations with DFT Technique” in National Level Technical Symposium TECHISIUM- April 09th 2011 in SIT, Tumakuru.
- Presented a technical paper on “Bridgeless High Power Factor Buck Converter” in 1st National Conference on CCSO-May 12-13th 2011 in Dr.AIT, Bengaluru.
- Presented a technical paper on “A Fault Detection and Service Restoration Algorithm for Ungrounded Distribution System” in 5th National Conference on AECT-Feb 02-04th 2012 in MIT, Manipal.
- Presented a technical paper on “Automated Fault Location System for Primary Distribution Networks” in 2th National Conference on NACEA- May 10-11th 2012 in SSIT, Tumakuru.
- Presented a technical paper on “Coin identification using MAT LAB” in National Conference on NCIRTE-April 26th 2013 in Dr.SMCE, Bengaluru. Presented a technical paper on “PLC Programming and its Application” in
- National Conference on NCIRTE-26th April 2013 in Dr.SMCE, Bengaluru.
- Presented a technical paper on “A New Approach to Multifunctional Dynamic Voltage Restorer Implementation for emergency control in distribution system” in National Conference on NCIRTE-26th April 2013 in Dr.SMCE, Bengaluru.
- Presented a technical paper on “Supply Security Enhancement by DMS” in
- National Conference on NCIRTE-26th April 2013 in Dr.SMCE, Bangalore.
- Presented a technical paper on “Power System Stability Enhancement Using SSSC” in National Conference on RT&EEE-16th march 2013 in SIET, Tumakuru.
- Presented a technical paper on “A CONTROL Strategy for UPQC” in
- National Conference on RT&EEE- 16th March 2013 in SIET, Tumakuru.
- Presented a technical paper on “Role Of Power Electronics in RES” in National Conference on RT&EEE-16th March 2013 in SIET, Tumakuru.

- Presented a technical paper on “Control Of Three Phase PWM Rectifiers Using A Single DC Current Sensor” in National Conference on RT&EEE- 16th March 2013 in SIET, Tumakuru.
- Presented a technical paper on “Magneto Hydrodynamic For Advanced Power Generation System” in National Conference on RT&EEE- 16th March 2013 in SIET, Tumakuru.

## Books

- Iterative International Publisher as an EDITOR for the edited book titled “Futuristic Trends in Renewable & Sustainable Energy Vol.2,” by Mr.Siddappaji.M.R. The Publisher of the book is Book Publisher Iterative International Publisher with ISBN in print ISBN: 978-93-95632-89-8, Series Id: IIP\_V2\_2022\_BS\_18\_06”, IIP Proceedings, Volume-2 Book-29, Part-5, Page No.:215-228 and Publication Date: 01/11/2022. The chapter title “THERMAL COMFORT OF VERNACULAR BUILDINGS ACCORDING TO SOCIAL STATUS AT KALABURAGI”.
- Paradox International Publications as an Co-Editor for the book titled “INNOVATIVE RESEARCH: UNITING MULTIDISCIPLINARY INSIGHTS” VOLUME-1 by Dr.Siddappaji.M.R. The Publisher of the book is Red Unicorn Publishing Pvt. Ltd with ISBN: 978-93-5809-998-0, DIP: 18.10.9358099984, DOI: 10.25215/9358099984, Title ID: 9358099984, Registration no. GJ31A0000303, in the month of 19-March-2024 (First Edition).
- Iterative International Publisher as an EDITOR for the edited book titled " Futuristic Trends in Electrical Engineering Volume 3 Book 2 " by Dr.Siddappaji.M.R. The Publisher of the book is Book Publisher Iterative International Publisher with ISBN in print E-ISBN: 978-93-6252-039-5, Series Id:IIPV3EBS20\_G22, IIP Proceedings, Volume-3 Book-2, Part-9, Page No.: 235- 242 and Publication Date: 01/03/2024. The chapter title “MODELING OF SPR ARROW STRUCTURES FOR LAB-ON-A-CHIP APPLICATION.
- IGI Global - Scopus Indexed as an EDITOR for the edited book titled Source title: AI and Quantum Network Applications in Business and Medicine ‘Securing AI Systems in Healthcare with Quantum Networks’, Realized date:December, 2024, Copyright: © 2025 |Pages: 14 (339-352). DOI: 10.4018/979-8-3693-8135-9.ch020
- SCIENTIFIC INTERNATIONAL PUBLISHING HOUSE as an EDITOR for the edited book titled Source title: “ARTIFICIAL INTELLIGENCE IN CYBER SECURITY” Realized date :December-2025, ISBN NO: 978-93-7196-656-6, Year of Allotment of ISBN: 2025
- SCIENTIFIC INTERNATIONAL PUBLISHING HOUSE as an EDITOR for the edited book titled Source title: “ PRINCIPAL OF ELECTRICAL AND ELECTRONICS ENGINEERING” Realized date :December-2025, ISBN NO: 978-93-7196-656-6, Year of Allotment of ISBN: 2025

## Patents

- MACHINE LEARNING AND IMAGE PROCESSING BASED SMART PREDICTION OF HUMAN EMOTIONS AND CHARACTER, The patent office journal No. 33/2021 Dated: 13/08/2021
- SINGLE MOTOR CONTROLLED DRIVING MODE CHANGE SYSTEM OF HYBRID ELECTRIC VEHICLE, The patent office journal No. 36/2021 Dated: 03/09/2021
- IOT AND WIRELESS BASED SMART SELF POWER GENERATING ELECTRIC VEHICLE WITH OPTIMAL MANAGEMENT, The patent office journal No. 37/2021 Dated: 13/08/2021
- GSM BASED INTELLIGENT ENERGY METER FOR ELECTRICITY CONSUMPTION MEASUREMENT AND BILL PAYMENT SYSTEM, The patent office journal No. 37/2021 Dated: 24/09/2021

## Invited Lectures, talks and workshops

- TWO week ISTE under MHRD workshop on Control System Conducted by Indian Institute of Kharagpur from 2<sup>nd</sup> -12<sup>th</sup> Dec 2014 in SIT Tumakuru.
- One day workshop on Role of a Teacher in Students Career Building under TEQIP II-1.2 on 17<sup>th</sup> Nov 2014 in SSIT Tumakuru.
- Five Days Programme from 23<sup>rd</sup> -28<sup>th</sup> July 2015 on National Board Of Accreditation & Faculty Development Programme in SIET Tumakuru.
- National Seminar on Recent Advance In Power System UNDER TEQIP ii-1.2 ON 28<sup>th</sup> -29<sup>th</sup> Jan 2016 in SSIT Tumakuru.
- Five Days FDP under TEQIP II on **Insulation And High Voltage Engineering** from 11<sup>th</sup>-15<sup>th</sup> June 2013 in Dr.AIT, Bengaluru
- Five Days workshop on **Hydro Power Generation** under TEQIP II-1.2 from 15<sup>th</sup> -19<sup>th</sup> July 2013 in SSIT Tumakuru
- Three days workshop on **Electric Power Generation** under TEQIP II-1.2 on 24- 26<sup>th</sup> June 2013 in SSIT Tumakuru
- Three days workshop on **Computer Aided Electrical Drawing** from 7<sup>th</sup> -9<sup>th</sup> Jan 2013 in HKBK college of engineering, Bengaluru
- Two days workshop on **New Trends In Power System** under TEQIP II-1.2 from 8<sup>th</sup> -9<sup>th</sup> March 2013 in SSIT Tumakuru.
- TWO week ISTE under MHRD workshop on **Power System** Conducted by Indian Institute of Kharagpur from 10<sup>th</sup> -15<sup>th</sup> July 2017 in SIT Tumakuru