

1	Name of Faculty	Dr. G. SURESH BABU
2	Designation	Professor
3	Nature of Job/Appointment	Regular
4	Date of Joining	08-11-1998
5	E-mail	gsureshbabu_eee@cbit.ac.in



6	Education Qualifications	Name of the Degree	Class
	Ph. D	Doctor of Philosophy (Electrical Engg.)	Awarded
	PG	M. Tech (Industrial Drives & control)	1 st Class
	UG	A.M.I.E.	Second class

7 **Work Experience**

Teaching	32 Years
Research	16 ½ years
Industry	--
Others	--

8 Area of Specialization Electric Drives, Energy Management, Renewable Energy

9 Professional Memberships
MIE – M-122165-5
ISTE – LM 21858
LMISLE – LM1904
Member of SEPA –[Sustainability and Energy Practitioners Association]

10 Responsibilities held at Institution Level
1. Head of the Department since September 2018 to Feb 2023
2. Chairman- Energy Audit Committee, CBIT
3. Convener-Energy Savers' club
4. Convenor- Geervana Bharathi/ Chaitanya Sattva [UHV Cell]

11 Responsibilities held at Department Level
1. Worked as Chair Person, BoS
2. Worked as In-charge DSP Lab from 04-05-2009 to 17-08-2010
3. In-Charge C & M Lab from 04-05-2006 to 10-09-2018
4. Worked as PG Coordinator
5. In-Charge Consultancy
6. In-charge Project Lab

12 Research Guidance -3 scholars submitted their dissertation in Jan 2024;-3 more in progress

13 Awards Received
1. Received Prox R&D Award-23 in Energy Management on 10th July 2023 from Record Owner
2. Dr G Suresh Babu received “ **Lifetime Achievement Award** “from VD Good Professional Association , Trivendrum on 29th August 2021.
3. Dr .G.Suresh Babu received “ **Outstanding Contribution to Engineering Education Award**” from Imperial Society of Innovative Engineers (India) on 14th June 2021.
4. Dr. G. Suresh Babu received “**Dr APJ Abdul Kalam Best teacher award**” from INTERNATIONAL Organisation of Innovative Research and Publishers, on 28th February, 2020.
5. Dr. G. Suresh Babu received “**Honourable Jury Mention (International Achievement)**” from EET CRS 8th Science & Technology Awards-19, Bangalore on 09th June 2019.
6. Dr. G. Suresh Babu received “**Distinguished Faculty in Engineering**” from Venus International Foundation, Chennai on 7th July, 2018.

14 Courses Handled at Under Graduate / Post Graduate Level.
Electromagnetic Theory, Electrical Measuring Instruments Utilization of Electrical Engineering, Reliability Engineering, Human Values and Professional Ethics, Renewable Energy Sources; Special Electrical Machines Energy management, Research Methodology, Advanced Synchronous Machine Theory, Machine Modelling, Advanced Electric Drives

15	No. of Papers Published	National Journals – 00	International Journals – 30
16	Projects Carried out	National Conference – 09	International Conference – 10
17	Patents	<p>1. Completed R&D project titled “Design and Development Grid Tied Inverter for Renewable Sources Applications”, Sponsored by R & D, Institution of Engineers (India) Kolkata in 2016.</p> <p>2. Completed R&D project titled “Design and Development of Solid Rotor Alternator” Sponsored by CBIT R&D in 2013.</p> <p>Dr. N.V. Vasantha Gowri , Dr. T. Murali Krishna and Dr.G.Suresh Babu, a patent is published with File No.: 202241049658 A, date of filing of application: 30.08.2022 and Publication date: 09/09/2022 with the title of invention as “A Hybrid Power Energy Management System”</p>	
18	Technology Transfer	<p>1. Delivered guest lecture during the International Conference on Recent Innovations in Smart Grid and Renewable Energy, held at JBIET Hyderabad, on 9th Jan., 2020.</p> <p>2. Resource person for the lecture conducted by Sri Saraswathi Vidya Peetham, on eve of Sri Ramanujan Jayanthi Celebrations on Nov. 27, 2019.</p> <p>3. Resource person for AICTE- FDP “Power Electronics for Renewable Energy Systems - Present Trends and Future Scope” (PERES-2017)”, EEE Dept., CBIT(A) Nov-2017</p> <p>4. Resource person IE(I) chapter on, “Latest Trends in Electric Drives”, at RGM CET on 30-12-2015.</p> <p>5. Resource person IE(I) chapter on, “Application of Vedic Mathematics in Engineering”, at RGM CET on 29-12-2015.</p> <p>6. Resource person IE(I) chapter on, “Strategies for Successful Completion of Final Year Engineering Projects”, at RGM CET on 29-12-2015.</p> <p>7. Resource person on “Electro Magnetic Fields” at Guru Nanak Institutions of Technical Campus on 01-09-2015.</p> <p>8. Resource person on “Overview of Mahavera’s Ganita Sara Sangraha” at Institute of Scientific Research on Vedas on 30-08-2015.</p> <p>9. Resource Person in A National Level Workshop on “Recent Trends in Industrial Electrical Drives”, EKATRA -2014, Khammam Institute of Technology and Science Khammam on 31-01-2014.</p> <p>10. Resource person in ESC-JNTUH on “Special Machines-Significance of Solid Rotor Alternator”, JNTUH on 30-01-2014.</p> <p>11. Resource person at NIT-Calicut on “Engineering Applications of Vedic Mathematics” at Kerala on 09-01-2014.</p> <p>12. Resource person on “Promising Technologies in Power electronics” at Promising Technologies in Power Electronics and Power Systems, Dept. of EEE, JBIET(A), Hyderabad on 24-08-2013.</p> <p>13. Resource person on “Electrical Heating Systems and Electrical Safety” at MDNL Hyderabad, on 27-06-2013.</p> <p>14. Resource person UGC-ASC Three-week Refresher Course on “Artificial intelligence and its applications to power systems” at JNTUH during 24-06-2013 to 13-07-2013.</p> <p>15. Key note speaker, Guest of honour and Chaired International Conference on Smart Structures and Systems (ICSSS-2013), at Saveetha Engineering College, during 28-03-2013 to 29-03-2013</p> <p>16. Keynote speech on “Advances in Electrical and Electronics Engineering” at Sri Venkateswara Engineering College, Suryapet on 22-03-2013.</p> <p>17. Chaired the sessions at the International Conference on “INDUCTICA 2012” at CWIEME-UK, at Bangalore, on 21-11-2012 to 22-11-2012.</p> <p>18. Resource person on “Engineering Applications of Vedic Mathematics” at Coimbatore Institute of Technology, Coimbatore on 11-07-2012.</p> <p>19. Resource person on “Applications of Vedic Mathematics in Engineering”, Trushna EEE Association formation at Dept. of EEE, GITAM University, Hyderabad, on 24-08-2011.</p> <p>20. Resource person on “Applications of Vedic Mathematics in Electrical Engineering”, at Veonix SAP Solutions Bangalore on 15-02-2011.</p> <p>21. Resource person on “Engineering Applications of Vedic Mathematics” at Institute of Scientific Research on Vedas I-</p>	
19	Invited Speaker (Few Important/Prominent)	<p>1. Delivered guest lecture during the International Conference on Recent Innovations in Smart Grid and Renewable Energy, held at JBIET Hyderabad, on 9th Jan., 2020.</p> <p>2. Resource person for the lecture conducted by Sri Saraswathi Vidya Peetham, on eve of Sri Ramanujan Jayanthi Celebrations on Nov. 27, 2019.</p> <p>3. Resource person for AICTE- FDP “Power Electronics for Renewable Energy Systems - Present Trends and Future Scope” (PERES-2017)”, EEE Dept., CBIT(A) Nov-2017</p> <p>4. Resource person IE(I) chapter on, “Latest Trends in Electric Drives”, at RGM CET on 30-12-2015.</p> <p>5. Resource person IE(I) chapter on, “Application of Vedic Mathematics in Engineering”, at RGM CET on 29-12-2015.</p> <p>6. Resource person IE(I) chapter on, “Strategies for Successful Completion of Final Year Engineering Projects”, at RGM CET on 29-12-2015.</p> <p>7. Resource person on “Electro Magnetic Fields” at Guru Nanak Institutions of Technical Campus on 01-09-2015.</p> <p>8. Resource person on “Overview of Mahavera’s Ganita Sara Sangraha” at Institute of Scientific Research on Vedas on 30-08-2015.</p> <p>9. Resource Person in A National Level Workshop on “Recent Trends in Industrial Electrical Drives”, EKATRA -2014, Khammam Institute of Technology and Science Khammam on 31-01-2014.</p> <p>10. Resource person in ESC-JNTUH on “Special Machines-Significance of Solid Rotor Alternator”, JNTUH on 30-01-2014.</p> <p>11. Resource person at NIT-Calicut on “Engineering Applications of Vedic Mathematics” at Kerala on 09-01-2014.</p> <p>12. Resource person on “Promising Technologies in Power electronics” at Promising Technologies in Power Electronics and Power Systems, Dept. of EEE, JBIET(A), Hyderabad on 24-08-2013.</p> <p>13. Resource person on “Electrical Heating Systems and Electrical Safety” at MDNL Hyderabad, on 27-06-2013.</p> <p>14. Resource person UGC-ASC Three-week Refresher Course on “Artificial intelligence and its applications to power systems” at JNTUH during 24-06-2013 to 13-07-2013.</p> <p>15. Key note speaker, Guest of honour and Chaired International Conference on Smart Structures and Systems (ICSSS-2013), at Saveetha Engineering College, during 28-03-2013 to 29-03-2013</p> <p>16. Keynote speech on “Advances in Electrical and Electronics Engineering” at Sri Venkateswara Engineering College, Suryapet on 22-03-2013.</p> <p>17. Chaired the sessions at the International Conference on “INDUCTICA 2012” at CWIEME-UK, at Bangalore, on 21-11-2012 to 22-11-2012.</p> <p>18. Resource person on “Engineering Applications of Vedic Mathematics” at Coimbatore Institute of Technology, Coimbatore on 11-07-2012.</p> <p>19. Resource person on “Applications of Vedic Mathematics in Engineering”, Trushna EEE Association formation at Dept. of EEE, GITAM University, Hyderabad, on 24-08-2011.</p> <p>20. Resource person on “Applications of Vedic Mathematics in Electrical Engineering”, at Veonix SAP Solutions Bangalore on 15-02-2011.</p> <p>21. Resource person on “Engineering Applications of Vedic Mathematics” at Institute of Scientific Research on Vedas I-</p>	

	<p>20 No. of Books/Chapter / Article Published with details</p>	<p>SERVE, Hyderabad on 22-08-2010.</p> <p>22. Resource person in ASC-UGC Refresher Course “Advances in Power Electronics and Their Applications to Drives and Power Systems”, at JNTUH on 10-11-2008.</p> <p>23. Chaired sessions as Judge on “Save Energy 2005”, ECM-IE(I)Hyderabad, during 21-01-2005 to 23-01-2005.</p> <p>1. Published one book chapter along with dr Ahmad syed etal ..”recent advancements abd challenges of Power Train technologies in Electric Vehicles applications “ ISBN: 9781003354901, Nov 2023</p> <p>2. An article titled, “Vedic Maths- Applications Explored”, in Vegam-SWIS the self-development academy souvenir VPL-2015, pp.14-15, Dec-2015.</p> <p>3. An article “Solid rotor Alternator-An alternative to traditional System” in Electrical India Magazine, March 2015.</p> <p>4. An article titled, “Vedic Mathematics In Micro Controllers”, in Electronics For You Magazine, pp. 64-65, Feb-2015.</p> <p>5. An article titled, “A Ray of Hope for Solar Applications Feasibility”, in Electrical India Magazine, pp. 24-36, Oct 2012.</p> <p>6. An article titled, “Amaranthine Flower in the Math World Sapling”, Ancient Indian Mathematicians I-Serve Hyderabad, pp.159-165.</p> <p>7. A Text Book for DECE 2nd Year “Basic Electrical Engineering”, Falcon Publishers Hyderabad.</p> <p>8. A Text Book for DEEE & DEIE 1st Year “Basic Electrical Engineering”, Falcon Publishers Hyderabad.</p>
<p>21</p>	<p>Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops. Other Trainings (Attended and/or Organized).</p>	<p>1. Attended one week FDP on IKS-Madras organized by UGC-HRD-MoE- Gol from 21.08.2023 to 26.08.2023</p> <p>2. Attended a workshop on IKS at Bengaluru from 01.09.2023 to 03.09.2023</p> <p>3. Attended a 3 week ONLINE -FDP on Indian Knowledge Systems :Sources, Theories, Concepts and Practices sponsored by UGC-HRDC Supported by ICSSR & AICTE during 16 Nov- 07 Dec 2021</p> <p>4. Attended a 2 week ONLINE -FDP on Indian Knowledge Systems in Contemporary Education and Practices sponsored by UGC-HRDC Supported by ICSSR & AICTE during 05-19 Nov 2020.</p> <p>5. A one-day online STTP titled “Principles and Advances in Electromagnetics” organized by Department of Physics, Center for Continuing Education, IIT Madras, India during 22-03-2021 to 27-03-2021.</p> <p>6. Attended a webinar titled “Energy Simulation for HVAC Optimization” organized by PEDDA with the support of Bureau of Energy Efficiency (BEE), Ministry of Power, Government of India. on 18-03-2021 to 19-03-2021.</p> <p>7. Attended a webinar titled “Turnip Innovation Festival 2021” organized by Turnip Innovations on 22-01-2021 to 23-01-2021.</p> <p>8. Attended a two-day workshop titled “Power Electronics Applications in Electrical Systems” at JNTU, Hyderabad during 28-12-2020 to 29-12-2020.</p> <p>9. Attended a two-week online Faculty Development Program on “Indian Knowledge systems in Contemporary Education & Practices “conducted by DCBS, Sri Sri University, Cuttack during 05-11-2020 to 19-11-2020.</p> <p>10. Attended one day webinar on “Outcome based Education Software” organized by vmedulife software services on 11-06-2020.</p> <p>11. Attended a two-day workshop on “AI for COVID-19 Outbreak Prediction/forecasting-DATA Analysis and DATA Visualization” at Eduxlabs through online from 02-05-2020 to 03-05-2020</p> <p>12. Attended a three-day workshop on “SOLAR PV Installation” at MSME-PPDC-AGRA- Govt.of INDIA from 27-04-2020 to 29-04-2020.</p> <p>13. Attended three-day webinar on “Electric solar vehicle project” organized by ISIE INDIA from 17-04-2020 to 19-04- 2020.</p> <p>14. A Two-day Seminar on “Advanced Solar PV Technologies” at IICT, Hyderabad during 14-10-2019 to 15-10-2019</p> <p>15. A One-Week online-STTP on “Development of Laboratory Instruction and Manual” at CBIT, Hyderabad during 04-02-2019 to 08-02-2019</p> <p>16. A One Week MHRD FDP on “Internet of Things” at NIT Warangal during 08-05-2017 to 13-05-2017.</p>

17. A Five-day FDP on "Management Capacity Enhancement Program for Administrators", at IIM Lucknow during 25-05-2015 to 29-05-2015.
18. A Two-day workshop on "Advance Training Program on Green Building Rating Systems", at Hyderabad during 23-04-2015 to 24-04-2015.
19. A Four-day workshop on "Outcome Based Education & Accreditation", at CBIT, Hyderabad during 03-02-2014 & 15-17 Feb-2014.
20. A Two-day workshop on "Maintenance of 33/11 KV Substation, PTR's & DTR's, Distribution Network and SCADA", at CPTI/APCPDCL/ Hyderabad during 04-12-2013 to 05-12-2013.
21. A Three-week UGC-Refresher Course on "Advances in Power Electronics and their applications to drives and Power systems", UGC Academic Staff College, JNTUH, during 07-11-2005 to 26-11-2005.
22. A Two-week AICTE –ISTE STTP on "Application of Soft computing Techniques in Power Systems", BIT Mesra Ranchi, during 13.01.2003 to 25.01.2003

WS/ Seminars/ Conferences/ STTPs/ FDPs Organized

1. Organized One Week AICTE STTP (Phase-III) on "Trends and Challenges of Hybrid Electric Drive Utilities in Transport Sector", during 22-02-2021 to 27-02-2021.
2. Organized One Week AICTE STTP (Phase-II) on "Trends and Challenges of Hybrid Electric Drive Utilities in Transport Sector", during 02-11-2020 to 07-11-2020.
3. Organized One Week AICTE STTP (Phase-I) on "Trends and Challenges of Hybrid Electric Drive Utilities in Transport Sector", during 03-08-2020 to 08-08-2020.
4. Organized an online webinar on "Trends and Challenges in the Progress of E-Mobility in India" in association with Pantech on 20-06-2020.
5. Organized a Two-week On-line Training/Internship on "Simulation Tools for Electrical & Electronics Engineering" VIPRA during 08-06-2020 to 20-06-2020
6. Organized National Energy Conservation Week Celebrations at CBIT during December 14-12-2019 to 20-12-2019.
7. Organized a AICTE Sponsored One-Week STTP on "Introduction to research methodology & MATLAB programming for Optimization Techniques" during 25-11-2019 to 31-11-2019
8. Organized an International Conference on "Vedic Mathematics" in Association with IAVM during 29-08-2019 to 31-08-2019.
9. Organized a One-day Workshop on "Significance of MATLAB in Applications of Emerging Technologies in Association with MATHWORKS, on 26-06-2019.
10. Organized a Five-day On-line STTP on "Development of Laboratory Instruction and Manual" in Association with NITTR Kolkata during 04-02-2019 to 08-02-2019
11. Organized National Energy Conservation Week Celebrations at CBIT during December 14-12-2018 to 20-12-2018.
12. Organized Two-Week AICTE FDP on "Power Electronics for Renewable Energy Systems - Present Trends and Future Scope" (PERES-2017)", during 13-11-2017 to 25-11-2017.
13. Organized National Energy Conservation Week Celebrations at CBIT during December 14-12-2016 to 20-12-2016.
14. Organized National Energy Conservation Week Celebrations at CBIT during December 14-12-2014 to 20-12-2014.
15. Organized a Two-week ISTE- Refresher Course on "Application of Power Electronics in Power Systems", at CBIT during 25-11-2013 to 06-12-2013.
16. Organized One day seminar on "Concentrating Solar Thermal Technologies for Industrial & Commercial Application", at Institute of Engineers, State Centre, Hyderabad on 28-06-2013.
17. Organized National Energy Conservation Week Celebrations at CBIT during December 14-12-2012 to 20-12-2012.
18. Organized a FIVE-day National Level FDP "INexorable March of Electrical Drives in Industrial Arena" INDIA- 2012 during 25-06-2012 to 29-06-2012.
19. Organized One day Seminar on "Nonconventional Energy for Everyone Every Day" NEED at CBIT on 27-08-2011.
20. Organized Two-day State Level Technical Symposium for

students of Degree and Professional Colleges in Andhra Pradesh at CBIT during 13-08-2011 to 14-08-2011.

21. Organized a One Week Technical Staff Development Program "VISRUTHA-2010", during 29-11-2010 to 03-11-2010.
22. Organized various Guest Lectures during 18-08-10 to 10-01-2013.

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Details of Journal Publications/ Conferences (National and International)

International Journal:

1. G. Mohan Babu 1, **Dr. G. Suresh Babu** 2, Dr. E. Vidya Sagar 3 "An Intelligent Controller for the Signal Generation of Solar Energy and Battery Storage Supported Multi-Level UPQC;" International Journal on Recent and Innovation Trends in Computing and Communication ISSN: 2321-8169 Volume: 11 Issue: 9
2. Bhukya Bhavsingh, **G.Suresh Babu** ETAL."Design and Analysis of a High-Efficiency dual side S-S Compensation topology of Inductive Power Transfer for EV battery charging System"
3. Bhukya Bhavsingh1, **Gotluru Suresh Babu2**, Bhukya Mangu3, Ravikumar Bhukya: A receiver-side power control method for series-series magnetic topology in inductive contactless electric vehicles battery charger application; International Journal of Advances in Applied Sciences (IJAAS); Vol. 12, No. 3, September 2023, pp. 234~249; ISSN: 2252-8814, DOI: 10.11591/ijaas.v12.i3.pp234-249
4. Bhukya Bhavsingh1, *, G. Suresh Babu2, B. Mangu3: Comparison of Series/Series and Parallel/Series Resonance Circuit in 1.5 kW Inductive Wireless Power Transfer for EV Applications; Journal of Electrical and Electronic Engineering; 2023; 11(1): 1-14 <http://www.sciencepublishinggroup.com/j/jeee>; doi: 10.11648/j.jeee.20231101.1; ISSN: 2329-1613 (Print); ISSN: 2329-1605 (Online)
5. Muthuraj B, Suresh Babu G, Krishnaveni K, Arun Jayakar S, (2022), "Parameters' Optimization in Compressed Air Pressure Process Using Hybrid F min-GA-Based PID and Fractional Order Internal Model Controller", IETE Journal of Research,
6. N. Vasantha Gowri, JS Isaac, T. Muralikrishna, G. Suresh Babu, MV Depoures, S Sekar (2022), "Genetic Algorithm Integrated Fuzzy AHP-VIKOR Approach for the Investigation of W-Cut Insert Heat Exchanger for Cooling of Dielectric Fluid Used in Ultra-High Voltage Transformer", Advances in Materials Science and Engineering, Volume 2022, Article ID 2819688, 24 pages
7. **Sai Kishore**, U Choudhury, G. Suresh Babu, T. Murali Krishna (2021) "Comparison of Analytical and Software Based Design of Energy Efficient Induction Motor", International Journal for Research in Applied Science & Engineering, Volume-9, Issue-7, pp.3627-3631
8. G. Suresh Babu, A. Venkat Rao, C. Sharath Chandra and T. Murali Krishna, (2021) Adaptive Neuro Fuzzy Inference System Controller for Islanded Microgrid Under Nonlinear Load Conditions, International Journal of Electrical Engineering and Technology (IJEET), Volume-12, Issue-6, pp. 422-436
9. K. Krishnaveni, M. Swamy Das, G. Suresh Babu, T. Murali Krishna and N. Vasantha Gowri (2021) "Alternative Approaches for Laboratory Learning and Assessment in Engineering Education – Open Source Alternatives", International Journal of Electrical Engineering and Technology, Volume 12, Issue 6, pp.221-230.
10. T. Murali Krishna, N. Vasantha Gowri, G. Suresh Babu, C. Harish, N.V. Phanendra Babu and B. Akshita (2021) "Performance Comparison of BLDC Motor Based on Conventional and Expert Controllers", International Journal of Electrical Engineering and Technology (IJEET), Volume 12, Issue 6, pp. 211-220.
11. T. Murali Krishna, N. Vasantha Gowri, G. Suresh Babu, B. Akshita, Garv Agarwal and Mahesh Netha, "Modelling and Development of Controller for BLDC Motor", International Journal of Electrical Engineering and Technology (IJEET), Volume 12, Issue 6, pp. 200-210.
12. C. Harish, T. Murali Krishna, G. Suresh Babu, N.V. Phanendra Babu and D. Hrishikes Sai, (2021), "Simulation of IGBT based Solid State Fault Current Limiter using MATLAB/Simulink", International Journal of Electrical Engineering and Technology (IJEET), Volume 12, Issue 6, pp. 140-149.
13. P. Chow Reddy, G. Suresh Babu and T. Murali Krishna (2020) "A Novel Approach in Audio Compression using Vedic Concepts", International Journal for Research in Applied Science & Engineering Technology, Volume 8, Issue 7, pp.1122-1125.
14. G. Suresh Babu, N. R. Sai Varun, T. Murali Krishna, C. Harish and D. Harsha (2020) "Performance Analysis of DC-DC Converter based Standalone PV System using Cloud Connected Solar PV Emulator" Strad Research Journal, Volume 7, Issue 6, pp.440-447.
15. G. Suresh Babu, T. Murali Krishna, C. Srisailam and N. Vasantha Gowri (2020) "Performance Evaluation of DC Electric Spring Placed in Micro Grid Systems Using Solar PV Emulator", International Journal of Electrical Engineering & Technology, Volume 11, Issue 4, pp.246-256.
16. G. Suresh Babu, Sivasankar Venugopal, T. Murali Krishna (2020) "Inverse Definite Minimum Time Relay Coordination in Radial Traction System", International Journal of Electrical Engineering & Technology, Volume 11, Issue 4, pp.159-168.
17. T. Murali Krishna, K. Krishna Veni, G. Suresh Babu, D. Sushma and C. Harish (2019) "Performance Evaluation of Induction Motor for Unipolar and Bipolar Pulse Width Modulation Techniques", International journal of innovative technology and exploring engineering, Volume - 8, Issue-10, pp.3626-3629.
18. G. Suresh Babu, Sai Varun. N.R. (2019) "Performance Analysis of Solar PV Emulator Operated in Various Modes", International Journal of Research, Volume 8, Issue-5, pp.1305-1310.
19. G. Suresh Babu, B Prem Charan and T Murali Krishna (2018) "Performance Analysis of SPW

- Module Using Solar PVTR System”, International Journal of Engineering and Technology, Volume-7, Issue-3.3, Special Issue3, pp.68-72.
20. T. Murali Krishna, Deepak Gehlot, N. Anusha and G. Suresh Babu (2018) “Three Phase Grid Connected PV System with LVRT Control Strategy”, International Journal of Mechanical Engineering and Technology, Volume 9, Issue 7, July 2018, pp. 579–585.
 21. T. Murali Krishna, G. Suresh babu and B. Supraja (2018) “Simulation and Performance Analysis of Multi Source Inverter Topology for Renewable Energy Systems” International Journal of Emerging Technology and Advanced Engineering, Volume-8, Issue-2, pp.53-56.
 22. B. Prem Charan, G Suresh Babu and Priyanka Shukla (2017) “Determination of Parameters of a given SPV Module using Solar PVTR”, International Journal of Creative Research Thoughts, Volume-6, Issue-1, pp. 148-153.
 23. G. Suresh Babu, B. Prem Charan and A. Radha Krishna (2016) “Comparative Analysis of I-V and P-V Characteristics of a series and Parallel Connected SPV Modules” International Journal of Current Engineering and Scientific Research, Volume-3, Issue-8, pp.1-6.
 24. G Suresh Babu, T. Murali Krishna and B.Vikram Reddy (2015)“A Comparative Analysis Of Cogging Torque Reduction In BLDC Motor Using Bifurcation And Slot Opening Variation”, American Journal of Electrical Power and Energy Systems, Volume-4, Issue.(5-1), pp.9-12.
 25. G Suresh Babu and T. Murali Krishna (2015) “Feasibility of Hybrid Renewable System for Grid Free Remote Villages – A Case Study”, International Journal of Electrical Engineering and Technology, Volume 6, Issue 9, pp.28-34.
 26. G. Suresh Babu (2015) “Innovative Practices in Optimal Utilization of Solar Energy (Solar Tracking System)”, International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering Volume-3, Issue 12, pp.166-170.
 27. G Suresh Babu and B. Ramu (2013) “Design and Testing of Three Phase Converter Applicable To Four Quadrant Operation”, International Journal of Engineering Research and Application, Volume-3, Issue 2, pp. 711-716.
 28. G Suresh Babu, U K Choudary and G Tulasi Ram Das (2012) “A Novel Approach In Designing A Filter For Solid Rotor Alternator To Minimize Harmonics”, International Journal of Electrical Engineering and Technology, Volume-3, Issue 2, pp. 328-342.
 29. G Suresh Babu, U K Choudary, G Tulasi Ram Das and A Mahesh Kumar (2012) “An Economical Approach of Designing A Three Phase Bridge Tied Inverter For Solar Applications”, International Journal of Electrical and Electronics & Telecommunications, Volume-1, No.1, pp. 30-42.
 30. G Suresh Babu, U K Choudary and G Tulasi Ram Das (2010) “Analysis of Hardware Implementation of A Solid Rotor Alternator”, International Journal of AER, Vol. 5, Issue 16, pp. 2891–2902.
 31. Suresh Babu G, Choudhury U.K., Tulasi Ramdas G(2010), “A novel approach in the design of optimal tuning frequency of a single tuned harmonic filter for an alternator with rectifier loads” , Journal of Theoretical and Applied Information Technology, Volume 11, Issue 1, Pages 65 - 72

International Conferences/ National Conferences:

1. Bhavsingh, Bhukya, Mangu B,Babu, G.Suresh(2022), “Design and Analysis of a High-Efficiency dual side S-S Compensation topology of Inductive Power Transfer for EV battery charging System”, 2nd IEEE International Conference on Sustainable Energy and Future Electric Transportation, SeFeT Hyderabad, India, 4th - 6th August 2022.
2. G Suresh Babu, G. Harikrishna, (2020) “optimal switching of domestic loads for Energy Conservation and power distribution reliability” All India Conference on: Load management in Electrical Power systems in INDIA, held during 18th-19th March 2020.
3. G. Suresh Babu, "A Novel Technique to Observe the Performance of Solar PV Module System", 4th International Conference on Innovations in Electrical and Electronics Engineering (ICIEEE-2019), held during 26th-27th, July, 2019.
4. Sreekara Sarma, G. Suresh Babu (2018) “A Novel approach to Squaring Technique using Vedic Mathematics applied with EDSIMS”, 3rd International Conference on Vedic Mathematics, pp.72-77, ISBN 9781916124707
5. G. Suresh Babu and P. Chow Reddy (2018) “Myths and Facts about the Inventions by ancient Scholars in Vedic Mathematics Arena”, 3rd International Conference Vedic Mathematics, pp.144-150, ISBN 9781916124707
6. G. V. Aparna, G. Suresh Babu and T. Murali Krishna (2018) “Simulation and Analysis of Single-Phase Full Bridge Diode Rectifier with Different Passive Power Factor Correction Techniques”, IEEE International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering, ICRIEECE-2018, pp. 2351-2355.
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