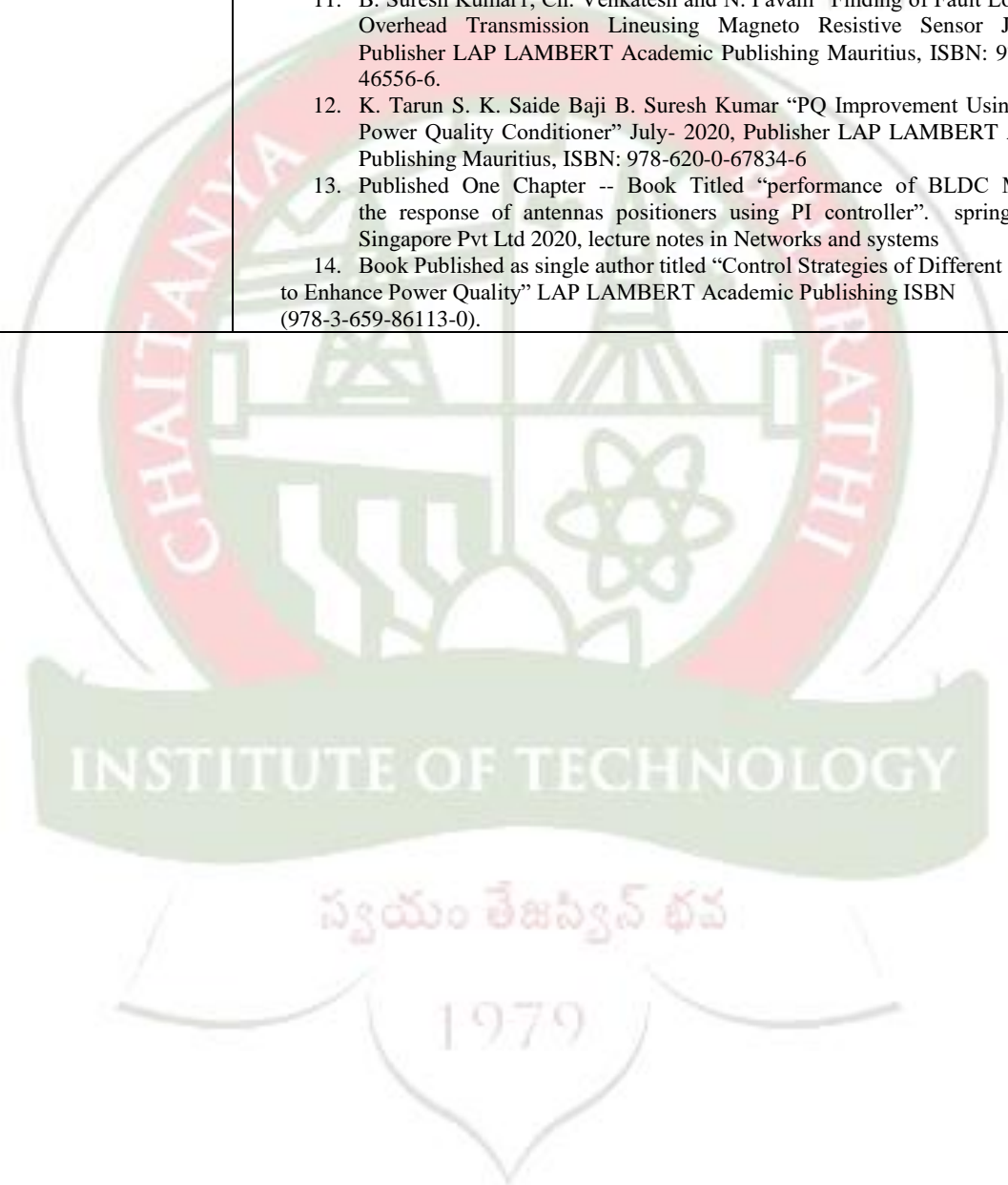


1	Name of Faculty	Dr. B. Suresh Kumar	
2	Designation	Associate Professor	
3	Nature of Job/Appointment	Regular	
4	Date of Joining	12-07-2004	
5	E-mail	bsureshkumar_eee@cbit.ac.in	
6	Education Qualifications	Name of the Degree	Class
	Ph. D	Doctor of Philosophy (EEE)	Awarded
	PG	M. Tech. (Information Technology in Power Engineering)	1 <sup>st</sup> class with distinction
	UG	B. Tech. (EEE)	1 <sup>st</sup> class
7	Work Experience		
	Teaching	22 Years	
	Research	08 years	
	Industry		
	Others	--	
8	Area of Specialization	Power Systems, Power Quality	
9	Professional Memberships	i. Life Member of GLACIAR Journal of Scientific Research ii. LM 40026 (MISTE) - ii. LM202199500 iii. 100006451 (IEEE)	
10	Responsibilities held at Institution Level	1. ELECTRICAL- In-charge CBIT Electrical Maintains in CBIT from 17-07-2017 to Till date. 2. Feed Back committee member	
11	Responsibilities held at Department Level	1. Member BoS, 2. Member PAC, 3. PG Coordinator (PS&PE) 4. UG & PG NBA Coordinator 5. In charge for Computer Simulation Lab 6. AICTE-MC Syllabus Updating Team 7. Member, Course Expert Group	
12	Research Guidance	08 (Progress)	
13	Awards Received	1. National award of Excellence 2025 B.Suresh Kumar has been conferred the prestigious “Adarsh Vidya Saraswati Rashtriya Puraskar” on 16 <sup>th</sup> August 2025. 2. Best Teacher Award 2025 B.Suresh Kumar has been conferred the appreciation and Recognition of outstanding Performance in Research and Publication by Global Management Council on 16 <sup>th</sup> August 2025 3. National award of Excellence 2024 B.Suresh Kumar has been conferred the prestigious “Dr Sarvepalli Radhakrishnan Rashtriya Puraskar” in the appreciation and Recognition of outstanding Performance in Research and Publication on 5 <sup>th</sup> October 2024 4. The Best Teacher (EEE), 2024 B.Suresh Kumar has been conferred the appreciation and Recognition of outstanding Performance in Research and Publication on 5 <sup>th</sup> October 2024 5. Academic Excellence Award by Novel Research Academy Pondicherry, on 5 <sup>th</sup> sep 2022 6. Distinguished PROFESSOR AWARD BY Novel Research Academy Pondicherry, on 20 <sup>th</sup> march 2021 7. Adarsh Vidya Saraswati Rashtriya Puraskar Glacier Journal Research Foundation, Global management Council, Ahmedabad & 17 <sup>th</sup> , March,2020(Received by post -Due to COVID-19)	
14	Courses Handled at Under Graduate / Post Graduate Level.	<b>UG:</b> 1.Elements of Electrical Engineering, 2. Electrical Circuits 3. Power Systems-I 4.Power Systems-II 5. Main and MINI Projects 6.Computer Simulation Lab <b>PG:</b>	

		1.Power Quality 2.Power Systems lab Hard Ware Lab 3.Power systems Simulation Lab 4.ACMPs 5.Power System Stability
15	No. of Papers Published	National Journals – 00 National Conference – 10
		International Journals – 63 International Conference – 29
16	Projects Carried out	--
17	Patents	1. Design no: 6383078, Grant date: 13/08/2024, Certificate of Registration for a UK Design, “Device for Stabilizing voltage”, Intellectual Property Office, Class 13 Equipment for Production, Distribution or Transformation of Electricity. 2. Application No: 202441091944, Ref No: TEMP/E-1/106208/2024-CHE,” Systems and Methods for Overcoming Developmental Barriers in Advanced Electric Vehicle Technologies”, Grant Date: 26/11/2024. Intellectual Property Office 3. The Patent Office Journal No. 35/2023 Dated 01/09/2023 , DEEP LEARNING-BASED APPROACHES FOR SUSPICIOUS ACTIVITY RECOGNITION BY PATTERNS OF WALKING BEHAVIOR, Date of filing of Application :04/08/2023, Publication Date : 01/09/2023 4. Title of the invention : INTEGRATION OF IOT AND ARTIFICIAL INTELLIGENCE FOR SMART AUTOMATION IN INDUSTRY 4.0 USING SENSORS, Date of filing of Application :19/10/2023,Publication Date : 01/12/2023. 5. Application No.202341086430A- Date of filing of Application: 18/12/2023 Publication : DETECTING CYBER-ATTACKS IN THE INTERNET OF M LOGICAND LSTM NETWORKS.
18	Technology Transfer	--
19	Invited Speaker(Few Important/ Prominent)	1. <b>Dr. B Suresh Kumar</b> of Chaitanya Bharati Institute of Technology has delivered guest lecture on “Advancements in Smart Grids: Integrating Renewable Energy for a Sustainable Future”, on 2 <sup>nd</sup> Nov 2024 at Siddhartha Institute of Engineering and Technology, Ibrahimpatnam, Hyderabad. 2. Siddhartha Institute of Engineering and Technology (SIET), Ibrahimpatnam, I would like to extend our heartfelt appreciation for the insightful and engaging guest lecture you delivered on 6 <sup>th</sup> February 2024. Your expertise on "Power Quality and Harmonic Issues" was highly enlightening and beneficial to our students and faculty members. 3. Siddhartha Institute of Engineering and Technology (SIET), Ibrahimpatnam, I would like to extend our heartfelt appreciation for the insightful and engaging guest lecture you delivered on 4th May 2024. Your expertise on "Renewable Energy Systems: Energy Storage Solutions (Batteries, Supercapacitors)" was highly enlightening and beneficial to our students and faculty members. 4. Delivered online lecture on 1st July 2023 at 4 -5.30PM On the topic “ <b>Electrical Safety &amp; Hazard Awareness as a part of our National Electrical safety week celebrations</b> (26th June to 2nd July 2023 5. Delivered a Guest lecture at Siddhartha Institute of Engineering and Technology on 03/02/2024. titled on “ <b>Power Quality and Harmonic Issues</b> ” 6. Power Systems Automation at Ramananda Thirtha Engineering college on 02/03/2020 during 1pm-3pm. 7. Power System Protection Equipments Ramananda Thirtha Engineering college on 02/03/2020 during 10am-11.45am 8. Delivered lectures on “ELECTICAL SAFETY” at CBIT-for the newly joined trainees Recruited by Dr. Reddy’s laboratory, Hyderabad, 2016 9. Delivered the guest lecturer at CBIT(A) Engineering College for the technical staff development program “VISRUTHA-2016” Hyderabad on “An Introductory on MATLAB”
20	No. of Books/Chapter Published with details	1. Advanced Electric Vehicles for Sustainable Mobility ISBN: 978-93-49818-59-0 2. Electrical Power Systems, RK Publications 3. Research Methodology, RK Publications ISBN: 978-93-48020-37-6 4. Introduction to Machine Learning: Fundamentals, Techniques and Applications, Chapter 4 ISBN: 978-81-972828-6-4 5. A novel block chain-based artificial intelligence application for healthcare automation <b>Published</b> by De Gruyter 2024, Pramendra Kumar, Gunawan Widjaja, Nikhil S. Patankar and B. Suresh Kumar <a href="https://doi.org/10.1515/9783111323749-019">https://doi.org/10.1515/9783111323749-019</a>

		<p>6. Modern Digital Electronics, AREMPULA SREENIVASA RAO, RAJESH DEVARAJ, Dr. B. SURESH KUMAR, Dr.S. PRAVEENA, RK Publications, India, Brazil, Kenya, 1st Edition – 2023, ISBN 978-81-968621-9-0</p> <p>7. Electrical &amp; Electronics Measurement, Dr. A. Joseph asanth, Dr. C. Shanmuga Sundaram, M V Ramana Rao, Dr. B. Suresh Kumar, RK Publications, 1<sup>st</sup> edition 2023, ISBN 978-81-19489-66-4</p> <p>8. B.Suresh Kumar et al published a book title “electrical &amp; electronics Measurements” by RK publisher 1st edition 2023 isbn: 978-81-19489-66-4</p> <p>9. Published on title” A novel block chain-based artificial intelligence application for healthcare automation ” From the book Toward Artificial General Intelligence Pramendra Kumar, Gunawan Widjaja, Nikhil S. Patankar and B. Suresh Kumar <a href="https://doi.org/10.1515/9783111323749-019">https://doi.org/10.1515/9783111323749-019</a></p> <p>10. B. Suresh Kumar, “Renewable Power Generation Technologies,” Alpha International Publications, 2022, ISBN No: 978-93-95978-62-0.</p> <p>11. B. Suresh Kumar, Ch. Venkatesh and N. Pavani “Finding of Fault Location on Overhead Transmission Line using Magneto Resistive Sensor July-2020, Publisher LAP LAMBERT Academic Publishing Mauritius, ISBN: 978-620-0-46556-6.</p> <p>12. K. Tarun S. K. Saide Baji B. Suresh Kumar “PQ Improvement Using Unified Power Quality Conditioner” July- 2020, Publisher LAP LAMBERT Academic Publishing Mauritius, ISBN: 978-620-0-67834-6</p> <p>13. Published One Chapter -- Book Titled “performance of BLDC Motor for the response of antennas positioners using PI controller”. Springer Nature Singapore Pvt Ltd 2020, lecture notes in Networks and systems</p> <p>14. Book Published as single author titled “Control Strategies of Different loads to Enhance Power Quality” LAP LAMBERT Academic Publishing ISBN (978-3-659-86113-0).</p>
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21	<b>Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops. Other Trainings (Attended and/or organized).</b>	<ol style="list-style-type: none"> <li>1. <b>Dr. B Suresh Kumar</b> of Chaitanya Bharati Institute of Technology ,has participated and completed One week online ATAL FDP on Navigating the Green Revolution: Intelligent Electric Vehicles and Hydrogen Fuel Technologies for Sustainable Mobility” at Kamaraj College of Engineering from 03/02/2025 to 08/02/2025</li> <li>2. <b>Dr. B Suresh Kumar</b> of Chaitanya Bharati Institute of Technology ,has participated and completed One week International FDP on “Innovations in Electrical Engineering for Sustainable Energy and Development” organized by Vidya Jyothi Institute of Technology from 1<sup>st</sup> to 5<sup>th</sup> September 2025.</li> <li>3. <b>Dr. B Suresh Kumar</b> of Chaitanya Bharati Institute of Technology ,has participated and completed Management Development Program organized by National Institute of Micro, small and Medium Enterprises at Gandipet Hyderabad from 17/12/2024 to 21/12/2024</li> <li>4. <b>Dr. B Suresh Kumar</b> of Chaitanya Bharati Institute of Technology ,has participated in One in house workshop on New NBA Evaluation Guidelines for UG Program in Engineering and Technology held on 22<sup>nd</sup> Feb 2025</li> <li>5. <b>Dr. B Suresh Kumar</b> of Chaitanya Bharati Institute of Technology ,has participated in “Two Week Winter School on Computer Vision and Speech Processing” organized by Department of Artificial Intelligence and Machine Learning, CBIT (A), in technical association with ACM Hyderabad Deccan Chapter during 9/12/2024 to 21/12/2024.</li> <li>6. <b>Dr. B Suresh Kumar</b> of Chaitanya Bharati Institute of Technology held duties as Co-Chairman in SUDHEE &amp; SHRUTHI – 2025 from 4<sup>th</sup> March to 8<sup>th</sup> March 2025 at CBIT, Hyderabad, India.</li> <li>7. <b>Dr. B Suresh Kumar</b> of Chaitanya Bharati Institute of Technology ,has participated and completed One week online ATAL FDP on “ Artificial Intelligence Applications in Renewable Energy Sources” at Jayamukhi Institute of Technology and Sciences from 09/12/2024 to 14/12/2024</li> <li>8. <b>Dr. B Suresh Kumar</b> of Chaitanya Bharati Institute of Technology ,has participated and completed One week online ATAL FDP on “High Performance Computing for Data Intensive and Complex AI Applications” at CBIT from 02/12/2024 to 07/12/2024.</li> <li>9. <b>Dr. B Suresh Kumar</b> of Chaitanya Bharati Institute of Technology ,has organized guest lecture on “Smart Grid Stability Prediction using Machine Learning and Predicting Electricity Bills based on Appliance usage and Demographic Factors” on 12<sup>th</sup> December 2024</li> <li>10. <b>Dr. B Suresh Kumar</b> of Chaitanya Bharati Institute of Technology ,has participated in a One week online AICTE recognized FDP on “Open Source Applications in Engineering Education”, conducted by CSE department from 18/11/2024 to 22/11/2024.</li> <li>11. <b>Dr. B Suresh Kumar</b> of Chaitanya Bharati Institute of Technology ,has participated in a One week online ATAL FDP on “Advance Technique in space Based Solar Power Generation” at Mother Theresa Institute of Engineering and Technology from 14/10/2024 to 19/10/2024</li> <li>12. <b>Dr. B Suresh Kumar</b> of Chaitanya Bharati Institute of Technology ,has successfully completed 21 Days Master class on Autonomous Vehicle Design” from 08-10-2024 to 28-10-2024.</li> <li>13. <b>Dr. B Suresh Kumar</b> of Chaitanya Bharati Institute of Technology has organized an Online STTP on the Ocassion of Electrical Safety Week on “Electrical Safety – Challenges and Solution” from 26-06-2024 to 02-07-2024.</li> <li>14. <b>Dr. B Suresh Kumar</b> of Chaitanya Bharati Institute of Technology ,has participated in a One week online FDP on “Big data Analytics with Spark” organized by Chaitanya Bharathi Institute of Technology (Autonomous), Hyderabad– 500 075, Telangana, INDIA., in association with Mixika Technologies during 01st – 06th February 2024.</li> <li>15. <b>Dr. B. Suresh Kumar</b>, Associate Professor from CBIT has actively participated in A One-week National Level Online Faculty Development Programme on "Recent Trends in Green Energy Initiatives and Soft Computing Techniques" from 11-07-2023 to 15-07-2023 organized by the Department of Electrical and Electronics Engineering, Mahatma Gandhi Institute of Technology, Gandipet, Hyderabad.</li> <li>16. <b>Dr. B Suresh Kumar</b>, Associate Professor CBIT from has participated in One-Week Online Faculty Development Program on "Enhancing Faculty Expertise:</li> </ol>
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		<p>Communication and Signal/Image Processing (EFECSSIP-2023)" organized by Department of Electronics and Communication Engineering, Aditya College of Engineering &amp; Technology during 10h - 15th July 2023.</p> <p>17. <b>Dr. B Suresh Kumar</b>, Associate Professor of CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY has successfully participated &amp; completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on AI &amp; Smart technology applications to Solar energy and Electrical vehicles Technology-Challenges, Issues and Handson at B V RAJU INSTITUTE OF TECHNOLOGY from,20/11/2023 to 25/11/2023.</p> <p>18. <b>Dr.Suresh Kumar</b> CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, HYDERABAD., HYDERABAD TELANGANA,Participated in the AICTE Recognized Faculty Development Programme,Conducted by on OBE and NBA Accreditation Electronics and Communication Engineering Department 07/08/2023 to 11/08/2023 (One Week) at from Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana</p> <p>19. <b>Dr.Suresh Kumar</b> CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, HYDERABAD., HYDERABAD TELANGANA,Participated in the AICTE Recognized Faculty Development Programme on Sustainable Development Goals: Challenges and Opportunities,Conducted by Electrical Engineering Department from 21/08/2023 to 25/08/2023 (One Week) at Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana</p> <p>20. <b>Dr. B Suresh Kumar</b>, Associate Professor of CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY has successfully participated &amp; completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on AI &amp; Smart technology applications to Solar energy and Electrical vehicles Technology-Challenges, Issues and Handson at BV RAJU INSTITUTE OF TECHNOLOGY from PB Coordinator 20/11/2023 to 25/11/2023.</p> <p>21. <b>Dr. B Suresh Kumar</b> of Chaitanya Bharathi Institute of Technology (A), Hyderabad has participated in One-week online FDP on "Empowering Educators: AI Tools for Engineering and Technology (AITET-2024)", organized by Department of Chemical Engineering, Chaitanya Bharathi Institute of Technology (A), Hyderabad, during 29th January 2024 - 2nd February 2024</p> <p>22. <b>Dr.B.Suresh Kumar</b> from Chaitanya Bharathi Institute of Technology has participated in One Week National Level Faculty Development Program on "Multi-Disciplinary Research Trends in Artificial Intelligence and Data Science" Organized from 29th January to 02nd February 2024, by the Department of Artificial Intelligence and Data Science, Chaitanya Bharathi Institute of Technology (Autonomous), Hyderabad - 500 075, Telangana, India.</p> <p>23. <b>Dr.Suresh Kumar</b> CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, Participated in the AICTE Recognized Faculty Development Programme on Big Data Analytics in Smart Grid Conducted by Electrical Engineering Department from 12/02/2024 to 16/02/2024 (One Week) at NITTTR, Chandigarh</p> <p>24. Participated in One week online FDP on Enhancing Faculty Expertise : Communication and signal /Image processing Organized by Dept of ECE Adithya college of Engg &amp; tech during 10-15th july 2023</p> <p>25. Attended one week Online FDP on " Recent Trends in Green Energy Initiatives and Soft computing techniques" from 11/7/2023- 15/07/2023 org by MGIT,hyd</p> <p>26. successfully participated &amp; completed AICTE Training And Learning (ATAL)Academy Faculty Development Program on AI &amp; Smart technology applications to Solar energy and Electrical vehicles Technology -Challenges, Issues and Handson at B V RAJU INSTITUTE OFTECHNOLOGY from20/11/2023 to 25/11/2023.</p> <p>27. Successfully completed 21 day master class on Python Programming during 25/10/2023-14/11/2023 by Pantech E learning</p> <p>28. B. Suresh Kumar, "Tools for Engineering Research," AICTE Recognized Faculty Development Program, National Institute of Technical Teachers Training and Research, Organized by NIT Kurukshetra, Haryana, 19 – 23 Sept 2022.</p> <p>29. B. Suresh Kumar, "The Role of Artificial Intelligence in Renewable Energy Applications," International Faculty Development Program, Organized by KPR Institute of Engineering and Technology, Coimbatore, 1 – 5 Aug 2022.</p> <p>30. B. Suresh Kumar, "2D Nanomaterials: Potential and Applications through ICT," AICTE recognized Short Term Course, National Institute of Technical Teachers Training and Research, Organized by CBIT Hyderabad, 17 – 21 Oct 2022.</p> <p>31. B. Suresh Kumar, "30 Days Master Class on Electric Vehicle Design," APSSDC, Pantech eLearning Pvt Ltd, Chennai, 20 June – 19 July 2022.</p>
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		<p>Organized by St. Mother Theresa Engineering college on 15-07-2020</p> <p>54. A One-day Webinar on “Smart Meter Technology” Organized by St. Mother Theresa Engineering college on 11-07-2020</p> <p>55. A One-day Webinar on “Indian Power Grid &amp; Market” Organized by St. Mother Theresa Engineering college on 04-07-2020.</p> <p>56. A One-day Webinar on “Energy Conservation and Auditing” Organized by MGIT(A) on 02-07-2020.</p> <p>57. A One-day Webinar on “Magnetic Levitation and High-speed Trains” Organized by MGIT(A) on 01-07-2020</p> <p>58. Participation in One Week (AICTE) Online Short-Term Training Program on Optimal Operation of Power System incorporating Renewable Energy Source Organized by Dept of EEE Sage Institute of Research and Technology, Bhopal. 27th July -1st Aug 2020.</p> <p>59. Participated Webinar on the title APPLICATION CHALLENGES IN BUS BAR IMPLEMENTATION organized by Megger India July 31st 2020.</p> <p>60. Participated in AICTE Sponsored STTP (Series - III) on the title "Recent Advancements in Integration of Distributed Energy Resources for Electric Vehicle Charging Stations and Energy Management using Internet of Energy" organized by Department of Electrical and Electronics Engineering from 17-08-20 to 22-08-20.</p> <p>61. Successfully completed Digital Transformation in Teaching Learning Process from NPIU Feb 14th to March 6th -2020</p> <p>62. Participated and Successfully completed IIC online sessions conducted by MHRD, during 28th April to 22nd May, 2020</p> <p>63. Successfully completed ATAL FDP on (IoT) Online 20th apr-24th Apr 2020 conducted BY NITTTR, GHANDHINAGAR</p> <p>64. Successfully completed ATAL FDP (Block Chain) Online 25th May -29th May 2020 conducted by NIT WARANGAL</p> <p>65. Attended FDP Research Opportunities in Electrical Engineering Online 7th May - 16th May 2020 organized by GCE, KARAD</p> <p>66. Attended STTP MATLAB based teaching learning in Mathematics, Science and Engineering Online (STTP) during 18th May -22nd May 2020,organized by Design Tech Private sys ltd ,Mumbai</p> <p>67. Attended FDP outcome based education: A step towards Excellence Online 11-15<sup>th</sup> May 2020 , organized by GCE,KARAD</p> <p>68. Attended FDP research Opportunities in Electrical Engineering and its applications Online, Sivakasi,18<sup>th</sup> May – 23rd May 2020, online,</p> <p>69. Attended FDP on AI Online, Organized By CR REDDY ENGG 22-26<sup>th</sup> May 2020,West Godavari Dist, Eluru, Andhra Pradesh</p> <p>70. Attended FDP Recent Trends in Electrical Engineering Online Organized By Vishnu College 8-12th June 2020, West Godavari District, Bhimavaram, Andhra Pradesh</p> <p>71. Attended FDP DESIGN OF Solar PV System Using PVsyst Software Online Organized By, Vaagdevi College of Engineering is an engineering college in Bollikunta, Warangal, Telangana, 9-13TH June 2020</p> <p>72. Attended FDP Recent Strategies on Micro and Smart Grid Technologies (RSMSGT - 2020) Department of EEE, organized byGMR Institute of Technology, Rajam, AP 15-19<sup>th</sup> June 2020</p> <p>73. Attended IoT for Emerging Applications an Initiative of Ministry of Electronics &amp; Information Technology (MeitY), Government of India Electronics &amp; ICT Academy IIT Guwahati, Assam (04-08<sup>th</sup> Feb, 2020).</p> <p>74. Attended ICT online course on-NBA Accreditation NITTTRK one week ICT 35 HOURS 22/4/19 to 26/04/19</p> <p>75. Attended ICT online course on -Development of Laboratory Instruction and Manual, NITTTRK One week ICT 35 hours 4/2/19 to 8/2/19</p> <p>76. Attended Two-day Workshop on “Accreditation Quality Enhancement through Outcome based Engineering Education” at Gurunanak Engineering College during 6-7 Nov2015.</p> <p>77. worked as Department Coordinator for ISTE Sponsored National level Technical Symposium “TechnISTEa” during 20-21 Oct 2014.</p> <p>78. As a staff coordinator organized the two-day workshop for “PCB Design” for the 2/4 EEE students during 5-6 Nov 2014</p> <p>79. Organized National Conference (RTPSD-2013 &amp; RTPSD -2016) CBIT Jan 2016201 &amp; Dec 2013</p> <p>80. Attended Refresher Course Applications of Power Electronics in Power System APEPS-2013 (2 weeks ISTE SOPNSORED STTP) CBIT 25<sup>TH</sup> NOV – 06<sup>TH</sup> DEC 2013</p> <p>81. Attended Two-day Training program on Maintenance of 33/11 KV Substation, PTR’s, DTR’s, distribution Network and SCADA at CPTI Hyderabad on 4<sup>th</sup> and 5<sup>th</sup> Dec-2013</p> <p>82. Attended UGC Sponsored Orientation course on At MANUU from 9<sup>th</sup> May to 5<sup>th</sup> June 2013 at Hyderabad</p>
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		<div>83. Organized national level student's symposium ELECTRECT-2K12</div> <div>84. Attended AICTE sponsored one-week National level Workshop on "Power Quality (PQ-09)" from 4<sup>th</sup> to 9<sup>th</sup> May 2009 Organized by GNITS, Shaikpet, Hyderabad.</div> <div>85. Attended TEQIP sponsored work shop at NIT Warangal on "Power Quality Issues-Analysis and Mitigation" from 27<sup>th</sup> to 29<sup>th</sup> NOV 2008.</div> <div>86. Attended AICTE Sponsored Staff Development Programme on "Inculcating Research Aptitude in Engineering Faculty" from 3<sup>rd</sup> May to 16<sup>th</sup> May 2008 at PSG College of Technology, Coimbatore.</div> <div>87. Attended AICTE Sponsored Staff Development Programme on "Power System Automation Through Scada&amp; Gis" From 4<sup>th</sup> To 16<sup>th</sup> June 2007. Aurora Engineering College Attended TEQIP sponsored work shop at OU on "Power Quality" During 28<sup>th</sup> -29<sup>th</sup> Sep 2007.</div> <div>88. Attended One week in House Training programme" on effective Teaching Methodology from 3<sup>rd</sup> to 8<sup>th</sup> July 2006 at CBIT.</div> <div>89. Attended "Personality Development &amp; Effective Teaching Methodology" at CBIT during 8<sup>th</sup> to 16<sup>th</sup> NOV 2004.</div>
22	Details of Journal Publications/ Conferences (National and International)	
	International Journal:	<div>1. Kamalakhar. P, B. Suresh Kumar, J. Upendar, "Performance Enhancement of Hybrid Type Full Bridge DC/DC Converter with Fuzzy MPPT for Efficient Photovoltaic Power Extraction", SSRG International Journal of Electrical and Electronics Engineering Volume 11 Issue 7, 291-301, July 2024ISSN: 2348-8379/ <a href="https://doi.org/10.14445/23488379/IJEEE-V11I7P126">https://doi.org/10.14445/23488379/IJEEE-V11I7P126</a> © 2024 Seventh Sense Research Group®</div> <div>2. Jayarama Pradeep, M. Vijayaragavan, V. Krishnakumar, <b>B. Suresh Kumar</b>, "Optimizing Simultaneous Energy Management for slow and fast charging electric vehicles: a hybrid approach", Clean Technologies and Environmental Policy, <a href="https://doi.org/10.1007/s10098-023-02705-x">https://doi.org/10.1007/s10098-023-02705-x</a>, Springer link, February 2024.</div> <div>3. M. Serabandal , <b>B. Suresh Kumar</b>2 , G. Malleshham, "Performance Improvement of UPQC with Sliding Mode Fractional Order Proportional Integral Control with Enhancement of Harmonics Mitigation", International Journal of Engineering Trends and Technology, Volume 72 Issue 1, 184-192, January 2024 ISSN: 2231-5381 / <a href="https://doi.org/10.14445/22315381/IJETT-V72I1P118">https://doi.org/10.14445/22315381/IJETT-V72I1P118</a> © 2024 Seventh Sense Research Group</div> <div>4. M. Serabandal , <b>B. Suresh Kumar</b>2 , G. Malleshham,"Mitigation of Harmonics in a grid system with sliding mode fractional order controller integrated UPQC", Dizhen Dizhi Jounal, ISSN: 0253-4967, vol. 15, Issue 11, Nov 2023.</div> <div>5. Tipirisetti Rakesh, <b>B. Suresh Kumar</b>, Upendar,"Performance Analysis of EV Battery Module with Different Charging Techniques for Better Stability", SSRG International Journal of Electrical and Electronics Engineering ISSN: 2348-8379/ <a href="https://doi.org/10.14445/23488379/IJEEE-VIII5P129">https://doi.org/10.14445/23488379/IJEEE-VIII5P129</a>,Volume 11 Issue 5, 313-322, May 2024 ©2024 Seventh Sense Research Group</div> <div>6. B. Harika, <b>B. Suresh Kumar</b>, J. Upendar, "Improvement of Voltage Profile by Integrating Renewable Generation Units at weak Bus locations of the system", Journal of Electrical Systems, ISSN: 1112-5209, 2024, PP 1741-1755.</div> <div>7. B. Ravindhar, <b>B. Suresh Kumar</b>, B. Mangu, "Optimal Coordinated Voltage Control in Distributed Systems with Smart Inverter-Interfaced Solar PV Penetration: A Discrete Jellyfish Search Algorithm Approach", International Journal of Renewable Energy Research, Vol.14m No 1m March, 2024, <a href="https://doi.org/10.20508/ijrer.v14i1.14362.g8854">https://doi.org/10.20508/ijrer.v14i1.14362.g8854</a></div> <div>8. B. Ravindhar, <b>B. Suresh Kumar</b>, B. Mangu, "White Shark Optimization for Efficient Conservation Voltage Reduction in Photovoltaic Enriched Distribution Grids with Smart Inverters and Network Reconfiguration", International Journal of Intelligent Engineering &amp; Systems, Vol. 17, No. 1, 2024, <a href="https://10.22266/ijies2024.0229.37">https://10.22266/ijies2024.0229.37</a></div> <div>9. Savitri Swathi, <b>B. Suresh Kumar</b>, J. Upendar, "Comparative Analysis and Validation of Advanced Control Modules for Standalone Renewable MicroGrid with Droop Controller", Bulletin of Electrical Engineering anmd Informatics, vol.13, No.2m April 2024, pp. 734-744.</div> <div>10. Archana Tamizharasan, M. G Ramanath Kini, <b>B. Suresh Kumar</b>, R. Manjunath, Shaik Shafi, Syed Noeman Taqui, P. Ganeshan, Mohamed Ouladsmane &amp; Sikandar Aftab,"Smart Performance Evolution of a solar water Heating System with PCM by using Deep Learning Approach", Electric Power Components and Systems, © 2023, Taylor &amp; Francis Group, LLC, ISSN: 1532-5008, <a href="https://10.1080/15325008.2023.2243458">https://10.1080/15325008.2023.2243458</a>.</div> <div>11. VINAY KUMAR MADISHETTI, Dr. B. SURESH KUMAR," MODELLING AND CONTROL OF DOUBLY FED INDUCTION GENERATOR (DFIG) FOR WIND POWER" Journal of Emerging Technologies and Innovative Research (JETIR), 2023 JETIR October 2023, Volume 10, Issue 10, (ISSN-2349-5162)</div> <div>12. Vaspari Shivani,Cheela Tejasri,Anumala Vishnu Vardhan, <b>Dr.B.Suresh Kumar</b>," Neuro-Fuzzy MPPT Controller for Enhanced Photovoltaic Power System Optimization: Design and Simulations" IEEE Volume XVI, Issue IV, APRIL/2024 , ISSN NO: 0022-1945,Journal of Interdisciplinary Cycle Research</div> <div>13. <b>DR.B.Suresh Kumar</b>,Banoth Harjun,Chiluveri Vishnu Vardhan, Dasari SaiTeja," SCADA BASED SUBSTATION CONTROL PANEL AND COMPREHENSIVE OPERATIONS' Journal of Interdisciplinary Cycle Research ISSN NO: 0022-1945,Volume XVI, Issue IV, APRIL/2024</div> <div>14. B.Suresh Kumar et al "Smart Performance Evolution of a Solar Water Heating System with PCM by Using</div>



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16. M.Serabanda (Research Scholar), B. Suresh Kumar (Associate Professor), G. Mallesham (Professor) Title” Mitigation of harmonics in a grid system with sliding mode fractional order controller integrated UPQC” Dizhen Dizhi Journal ( ISSN:0253-4967), Volume 15, Issue 11, NOVEMBER/2023 ,pg 1-10
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18. M. Serabanda1, B. Suresh Kumar2, G. Mallesham3 TITLED” Performance Improvement of UPQC with Sliding Mode Fractional Order Proportional Integral Control with Enhancement of Harmonics Mitigation” International Journal of Engineering Trends and Technology Volume 72 Issue1, 184-192, January 2024, ISSN: 2231–5381 / <https://doi.org/10.14445/22315381/IJETT-V72I1P118> © 2024 Seventh Sense Research Group®
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#### International Conferences:

1. B. Suresh Kumar,"Predicting Consumer Behavior and Preferences in E-Commerce Using Convolutional RNN Techniques", 2025 International Conference on Computing Technologies & Data Communication (ICCTDC), Jult 4-5<sup>th</sup> 2025.
2. B. Suresh Kumar," AI-Driven Analysis of Teacher Job Satisfaction in Highrer Education using BiCNN and BiRNN Modela", Third International Conference on Augmented Intelligence and Sustainable System (ICAISS 2025), ISBN: 979-8-3315-0724-4.
3. B. Suresh Kumar,"Advanced Global Safety with Precision Disaster Prediction and Early Warning Systems using H-PReADS Models", 2025 Global Conference in Emerging Technology (GINOTECH) during 9<sup>th</sup> to 11<sup>th</sup> May 2025.
4. Dr. B. Suresh Kumar," Predicting Academic Stress Among Students Through Psychometric Assessments Using Hybrid Neural Networks", 2025 Global Conference in Emerging Technology (GINOTECH) during 9<sup>th</sup> to 11<sup>th</sup> May 2025.
5. B. Suresh Kumar," Advanced Neural Network Models for Optimal Energy Management in Microgrids with Integrated Electric Vehicles", 5<sup>th</sup> International Conference on Trends in Material Science and Inventive Materials (ICTMIM-2025) during 7<sup>th</sup> – 9<sup>th</sup> April 2025at Rohini College of Engineering and Technology, Kanyakumari, Tamilnadu.
6. B. Suresh Kumar," Enhancing Distance Education Assessment using Open-Ended Questions and Innovative Measurement Techniques with SVM-WOA", 2025 IEEE, 979-8-3315-4265-8/25.
7. B. Suresh Kumar," Prediction of Injuries and Facilities in Aircraft Accidents through Ensemble Hybrid C-SEResNet Approach", 2025 IEEE.
8. B. Suresh Kumar," Securing IoT Devices in Smart Homes using ML-Based Anomaly Detection", at ICETAS on Nov 20-22 2024
9. Ravindhar Banothu, B. Suresh Kumar, and B. Mangu, "White Shark Optimization approach for Optimal Voltage Regulation coordination between PV smart inverters and traditional Volt-VAR control devices" at 1<sup>st</sup> International Conference on Power Energy and Secure Smart Technologies (ICPEST-2024) held during 13-14 December 2024 at CBIT, Hyderabad, India.
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11. B. Suresh Kumar, " Empowering Supply Chain Transperancy and Risk Management through Hybrid CNN and BiGRU Approach", First International Conference on SSITCON-2024, p78-8-3503-5293-1/24, DOI: 10.1109/SSITCON62437.2024.10795921
12. Dr.Patel Badari Narayana, Geetha Mahalakshmi, Yadi Reddy.M, **Dr.B. Suresh kumar**, R B R Prakash, D Suganthi , "Study on Battery Storage Exploitation using Reinforcement Learning," IEEE Xplore Part Number: CFP23BC3-ART; ISBN: 978-1-6654-5630-2, 2023 2nd International Conference on Applied Artificial Intelligence and Computing (ICAAIC) , DOI: 10.1109/ICAAIC56838.2023.10141011
13. Dr. E.Manigandan, . Mr.P.Anispremkoilraj, **Dr.B. Suresh Kumar**, Prof. Shilpa M.Satre, Dr Amit Chauhan, C. Jeyaganthan, "An Effective BiLSTM-CRF based Approach to Predict Student Achievement: An Experimental Evaluation" 2024 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things IEEE,DOI: 10.1109/ IDCIoT59759.2024.1046797 ISBN: 979-8-3503-2753-3
14. Dr. E.Manigandan, Mr.P.Anispremkoilraj, **B. Suresh Kumar**, Prof. Shilpa M.Satre, Dr Amit Chauhan, . C. Jeyaganthan," An Effective BiLSTM-CRF Based Approach to Predict Student Achievement: An Experimental Evaluation",Proceedings of the 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT) DVD Part Number: CFP24CV1-DVD;ISBN:979-8-3503-2752-6
15. **B. Suresh Kumar**, "Prediction of Injuries and Fatalities in Aircraft Accidents through Ensemble Hybrid C-Seresnet Approach", International Conference on Computer Communication and Informatics (ICCCI), 14<sup>th</sup> International Conference, 29<sup>th</sup> to 31<sup>st</sup> January 2024.
16. **B. Suresh Kumar**, "Enhancing Assessment in Distance Education: Open Ended Questions and Innovative Measurement Techniques with SVM-WOA Approach.", International Conference on Computer Communication and Informatics (ICCCI), 14<sup>th</sup> International Conference, 29<sup>th</sup> to 31<sup>st</sup> January 2024.
17. **B. Suresh Kumar**, "Short-Term Load Forecasting using Artificial Bee Colony Optimization with Deep Learning Model on Power Systems", Second International Conference on Smart Technologies for Power and Renewable Energy (SPECon), April 2-4, 2024.
18. Dr. E.Manigandan, 2. Mr.P.Anispremkoilraj, 3. B. Suresh Kumar, Dept of EEE, 4. Prof. Shilpa M.Satre,, 5. Dr Amit Chauhan, C. Jeyaganthan, Research Scholar,, " An Effective BiLSTM-CRF Based Approach to Predict Student Achievement: An Experimental Evaluation, Proceedings of the 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT) DVD Part Number: CFP24CV1-DVD; ISBN: 979-8-3503-2752-6 IEEE, Scopus Indexed. 979-8-3503-2753-3/24/\$31.00 ©2024



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19. Dr.b.Suresh Kumar presented the title "Prediction of injuries and Fatalities in Aircraft accidents through ensemble hybrid C-seresnet Approach by ICCCI held from 29th-31st Jan 2024 by Sri Shakthi Institute of Engg and Tech Coimbatore.
20. Dr.b.Suresh Kumar presented the title "Enhancing Assessment in Distance education :open Ended questions and innovative measurement Technique with SVM-WoA approach –in the 14th Int conf ICCCI " held from 29th-31st March 2024. by Sri Shakthi Institute of Engg and Tech Coimbatore
21. B. Suresh Kumar, "Sparrow Search Optimization with Deep Belief Network based Wind Power Prediction Model," *Intelligent Data Communication Technologies and Internet of Things*, 5 – 7 Jan 2023.
22. B. Suresh Kumar, "Generation of Electric Energy using Thermoelectric effect in Thick Forest," *International Conference on Innovations in Engineering and Technology*, 15 – 17 Sept 2022.
23. B. Suresh Kumar, "Novel Controller for Grid Connected Fuel Cell System," *Springer Conference on Electrical Engineering and Intelligent Systems*, 2022.
24. B. Suresh Kumar, "Sliding Mode Controller Based Direct Torque Control of SRM for Electric Vehicles," *Springer Conference on Electrical Engineering and Intelligent Systems*, 2022.
25. This is to certify that Mr. / Ms. / Dr. S. Swathi, B. Suresh Kumar, J. Upendar have received Session (Electrical Power Engineering) Best Paper award for the paper titled "Power Quality Concerns in Implementing Smart Distribution Grid Applications" in the International Conference on Emerging Trends in Circuit branch Technologies and Applications virtually on 3<sup>rd</sup>-4<sup>th</sup> April 2021 at Chaitanya Bharathi Institute of Technology (A), Hyderabad – 500 075, Telangana, India.
26. K. Sindhu Priya, Dr. B. Suresh Kumar, and S. Praveena presented a paper "modelling simulation of feedback based linear Electromechanical Actuator "International conf is organized by Malla Reddy college of Engineering and Tech ( ICETEE-2020) during 21ST-22 Aug 2020.
27. Dr. B. Suresh Kumar presented paper in International conference " 21 level Inverter Topologies" organized by the Department of Electrical, Electronics and Communication Engineering, Invertis University, Bareilly, U.P., India. During 11-12 Sep 2020
28. Presented a paper titled "Power inverter configuration for dual redundancy technique with fault diagnosis and fault tolerance, in the event "Virtual International Conference on POWER INITIATIVES (ICPI-2020)" organized by Department of EEE & IEEE Student Branch (STB-64616) of K. Ramakrishnan. College of Engineering on 22nd & 23rd of JULY 2020.
29. Mr. Tipiriseti Rakesh, Dr. B. Suresh Kumar & Dr. J. Upendar, presented a paper entitled "Present Day Lithium Ion Battery" in the International Web Conference on "Innovative Engineering Technologies - 2020" jointly organized by the Department of EEE and ECE, Sri Ramakrishna Institute of Technology, Coimbatore - 10 on August 5th 2020.
30. B. Suresh Kumar et al "Speed Control of BLDC Motor with PI Controller and PWM Technique for Antenna's Positioner", International Conference on Emerging Current Trends in Computing and Expert Technology COMET 2019, Panimalar Engineering College, Chennai, India, March 22nd & 23rd 2019.
31. B. Suresh Kumar "A Particle Swarm Optimization Technique for Economic Load Dispatch "International Conference on Management, Sciences, Engineering and Applications (ICMSEA - 2018), at bits Visakhapatnam, Andhra Pradesh, India which is being organized from December 20 - 22, 2018.
32. B. Suresh Kumar "Simulation of Electro-Mechanical Actuator for Missile Application by Dual Redundancy Technique" International Conference on Management, Sciences, Engineering and Applications (ICMSEA - 2018), at bits Visakhapatnam, Andhra Pradesh, India which is being organized from December 20 - 22, 2018.
33. B. Suresh Kumar "Power Quality Improvement using Custom Power Devices (AVC, DVR, APC) in IEEE ICCTCT 2018. during March 1st to 3rd, 2018 SVS College of Engineering, Coimbatore.
34. B. Suresh Kumar "Performance of Custom Power Devices for Power Quality Improvement" ICPCSI-0290 saveetha engineering college Chennai during 21st and 22nd Sep 2017.
35. B. Suresh Kumar "A Method for Capacitor Placement in Radial Distribution Systems" Presented a paper at MANIPAL(ICSDC2010-MIT) during 19th – 22nd August
36. B. Suresh Kumar, Dr. K. Ramesh Reddy "Wavelet and Neuro-Fuzzy Controlled Shunt Active Power Filter for 3-Phase, 4-Wire Systems in Reducing %THD and Improvement of Power Factor" MIPSCON-2011-IEEE Sponsored International Conference, GMRIT, Rajam-A. P during 7th-9th, April 2011, PP:82-88

#### **National Conferences:**

1. Presented a paper titled "Hardware Implementation and MATLAB Simulation of Automatic power factor correction" in A Two-Day National Level e-Conference on "Recent Advances in Technology & Engineering (CRATE-2020)" organized by the Dept. of Electrical & Electronics Engineering from 20th to 21st August 2020.
2. B. Suresh Kumar et al "Energy Storage Management Using Lithium-Ion Batteries" Research Day 2019, August 23<sup>rd</sup> 2020. CBIT
3. B. Suresh Kumar et al "Reliability modeling and Evaluation of distributed energy resources in smart power distribution systems" Research Day 2019, August 23<sup>rd</sup> 2020. CBIT
4. B. Suresh Kumar et al "Sensitivity Assessment of Micro Grid Investment Options to Guarantee Reliability of Power Supply in Rural Areas" Research Day 2019, August 23<sup>rd</sup> 2020. CBIT
5. B. Suresh Kumar et al "Development and Testing of Non-Isolated Fly Back Converter" Research Day 2019, August 23<sup>rd</sup> 2020. CBIT
6. Dr. B. Suresh Kumar, "An Improved IUPQC WITH fuzzy controller providing voltage regulation as a STATCOM" CBIT 28th -29th October 2016 RTPSD-2016 SUPPORTED BY CPRI & i-MANAGER Pg no:11-19.
7. Dr. B. Suresh Kumar, Dr. K Ramesh Reddy "Power System Fault Classification Using ANN" Role Of Engineers In The Development Of New State Of Telangana (NC-REDNeST), CBIT, 23rd - 24th January,

	<p>2015.Page-58.</p> <p>8. Dr. B. Suresh Kumar, Dr. K Ramesh Reddy” Analysis of Three Phase Shunt Active Filters” Role of Engineers in The Development Of New State Of Telangana (NC- REDNeST), CBIT, 23rd - 24th January, 2015.Page-57.</p> <p>9. B. Suresh Kumar,” An Aerial Image Processing for urban area segmentation and evaluation on satellite Images” at BIDAR (RTCSIT-09) Gurunanak Dev Engineering college, Karnataka, May 8’t-9’t 2009.</p> <p>10. B. Suresh Kumar, Dr. K. Ramesh Reddy Lalitha “A Comparative Study of PI and Fuzzy Logic Shunt Active Power Filter in Reducing % THD of a Three Phase Four Wire System” At NPSC, December 15<sup>th</sup>-17<sup>th</sup>, Hyderabad-2010-pp.301-306</p>

