Associate Professor	
Contract	8
27 - 01–2021	
Sudhakarbabu_eee@cbit.ac.in	
Name of the Degree	Class
Doctor of Philosophy (Electrical)	Awarded
M. Tech. (PED)	Distinction
EEE.	First
3.5Years (Includes research experience)	
4.5 Years	
2 Years	
Power Electronics, Renewable Energy Resources	5
 Senior Member, IEEE (Membership No: 940 Member IET; (Membership No: 1100478761 Member of IEEE power Electronics Society, number: 94012203 Member of The institute of research engineer (theIRED), Membership number: SM101000 Member of International Association of Engine Membership number: 159698 	12203)) Membership ers and doctors 052558 neers (IAENG),
Ph.D. Pursuing: 0	
 Received GOLD award for the poster Implementation and design of an autonom nano grid at the UNITEN POSTDOC HAN 30th Sept 2019, Universiti Tenaga Nasional, Received award "Young faculty in E towards exceptional academic records developments in the field of Electrical Eng International Foundation, India. Received a best research paper award "Charge controller techniques for solar F International Conference on Power Engin and Control, PECCON-2017, 2-4 March 20 Chennai Campus Received research award consecutively for 2015, 2016 contribution towards research p University. Selected as best associate of project for 2013 in cognizant technology solutions Awarded certificated of appreciation contribution towards Hyderabad Innovator CTS national wide, October 2012 Received best paper award in a nation contest (SVITS QUEST 2008) for prese "Fuzzy based economic load" organized by institute of technology and science in the yea (INNOV/ITS 2K8) for presenting paper tit (INNOV/ITS 2K8) for presenting paper tit 	r presentation on ous residential DC IGOUT DAY 2019, Malaysia. ngineering 2018" s, initiatives and jineering by Venus for the article title PV system" in 1st eering, Computing 17, VIT University, or the years 2014, publications by VIT the month of May for outstanding Fair organized by nal level technical enting paper titled y Sri Visveswaraya ar of 2008. vel student seminar
	 27 - 01–2021 Sudhakarbabu_eee@cbit.ac.in Name of the Degree Doctor of Philosophy (Electrical) M. Tech. (PED) EEE. 3.5Years (Includes research experience) 4.5 Years 2 Years Power Electronics, Renewable Energy Resources Senior Member, IEEE (Membership No: 940 Member of IEEE power Electronics Society, number: 94012203 Member of The institute of research enginee (theIRED), Membership number: SM101000 Member of International Association of Engi Member of International Association of Engi Membership number: 159698 Ph.D. Pursuing: 0 Received GOLD award for the poster Implementation and design of an autonom nano grid at the UNITEN POSTDOC HAN 30th Sept 2019, Universiti Tenaga Nasional Received award "Young faculty in E towards exceptional academic records developments in the field of Electrical Eng International Foundation, India. Received a best research paper award "Charge controller techniques for solar F International Conference on Power Engin and Control, PECCON-2017, 2-4 March 20 Chennai Campus Received as best associate of project for 2013 in cognizant technology solutions Awarded certificated of appreciation contribution towards Hyderabad Innovator CTS national wide, October 2012 Received best paper award in a nation context by Strips (2015, 2016 Selected as best associate of project for 2013 in cognizant technology solutions Awarded certificated of appreciation control VECCON-2017, 2-4 March 20 Chennai Campus Received best paper award in a nation control bast desord for presenting paper if institute of technology and science in the ye Received best paper award in a national control presenting paper if economic load dispatch of thermal power J

Vagdevi institute of technology and science, Andhra Pradesh.
 Received 2nd prize for paper presentation in the national level technical symposium (Technosance 08) organized by Osmania

Courses Handled at Under Graduate / Post Graduate Level.	Electric Circuits-I, Electric Circuits-II, Basic Electrical Engineering, Fundamentals of Electrical Engineering, Electrical Circuits-Lab, Renewable Energy Resources, Advanced Power semiconductor devices, Power Electronics.
No. of Papers Published	National Journals – 00 International Journals – 66 (SCI Indexed – 56; SCI Indexed 10)
	National Conference – 01 International Conference – 14
Projects Carried out	Executive Member of FIST program 2016, sanctioned fund of Rs. 115.0 Lakh (215580 USD) by Department of Science and Technology, Reference number: SR/FST/ETI-420/2016.
Patents	Filed a patent under IP Australia, titled "A Process For Reducing Execution Time For Compression Techniques", Patent number: 2021100433, on 31 March 2021.
Technology Transfer	
	 Delivered key note address during one week faculty development program at P V P Siddhartha Institute of Technology, Vijayawada on 07th to 12th December 2020. Acted as a speaker for the AICTE Sponsored One Week Short Term Training Program organized by SVCE, Tirupathi on October 2020
Invited Speaker	 Delivered a keynote speech during International Webinar organized by SRM Eswari Engineering College on September 2020.
	 Delivered a guest lecture as speaker for the one day National Workshop "Power Circuit Design Using PSIM Software- Hands on Training" organized by School of Electrical Engineering, VIT University, Vellore on 07 October 2017.
No. of Books/Chapter Published with details	Thanikanti Sudhakar Babu , Rajasekar Natarajan, "Modeling, analysis development of maximum power extraction techniques" LAP Lambert publications, 2017.
	WS/ Seminars/ Conferences/ STTPS/ FDPs Organized
	 Organized an International webinar on EMI/EMC in Power Converters under IEEE PES student Branch of CBIT on 15 May 2021.
	 Organized a online seminar on "Advanced Power Converters for future Power Grids" under IEEE PES student Branch of CBIT on 10th March 2021.
	 Organized one day value added program on "Silicon carbide devices for high power applications" by V.Chandrasekar, Scientist E, Joint director power electronics division, CDAC
	 Trivendrum on 28 October 2017. Organized a one day pational level workshop titled
Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops/Other Trainings (Attended and/or Organized).	"Programming FPGA controller for solar PV applications based LabVIEW" in collaboration with Innovative invader technologies , National Instruments, Banglore at VIT University, Vellore on 27 October 2017.
	 Contributed as faculty organizer in the International conference on "Translational Medical and Imaging, ICTMI-2017" organized by School of Electrical Engineering, VIT University during 29 – 30 August 2017.
	 Contributed as faculty organizer in the International conference on "Innovations in Power and Advanced Computing Technologies (i-PACT)" organized by School of Electrical Engineering VIT University during 21 – 22 April 2017
	 Contributed as organizing committee member in conducting the "National level science contest for children" held at VIT University, Vellore on 21-22 January, 2017.
	 WS/ Seminars/ Conterences/ STTPS/ FDPs Attended Attended one day value added program on "Smart wide area
	monitoring protection using communication control" held on 25

- March 2017 at VIT University, Vellore.
 Participated in Three Day National Workshop with Hands on session in "Signal and Image Processing: Practice to Research" organized by School of Electrical Engineering, VIT University, Vellore, during 23 25, February 2017.
- Attended Industrial Automated Training in Drive, Motion, Control and Robotics organized by Delta Electronics India from 03 February 2017 to 07 February 2017 at New Delhi.

International Journals form the year 2017

- [1]. Palpandian, Murugesan, David Prince Winston, Balachandran Praveen Kumar, CherukuriSanthan Kumar, Thanikanti Sudhakar Babu, and Hassan HaesAlhelou (2021) "A New Ken-Ken Puzzle Pattern Based Reconfiguration Technique for Maximum Power Extraction in Partial Shaded Solar PV Array." IEEE Access Vol.9: 65824-65837.
- [2]. Thentral, TM Thamizh, K. Vijayakumar, S. Usha, R. Palanisamy, Thanikanti Sudhakar Babu, Hassan HaesAlhelou, and Amer Al-Hinai (2021) "Development of Control Techniques using Modified Fuzzy Based SAPF for Power Quality Enhancement." IEEE Access.
- [3]. Sain, Chiranjit, Pabitra Kumar Biswas, Priya Ranjan Satpathy, Thanikanti Sudhakar Babu, and Hassan HaesAlhelou. (2021) "Self-Controlled PMSM Drive Employed in Light Electric Vehicle-Dynamic Strategy and Performance Optimization." IEEE Access 9: 57967-57975.
- [4]. Tan, Kang Miao, Thanikanti Sudhakar Babu, Vigna K. Ramachandaramurthy, PadmanathanKasinathan, Sunil G. Solanki, and Shangari K. Raveendran (2021) "Empowering smart grid: A comprehensive review of energy storage technology and application with renewable energy integration." Journal of Energy Storage 39: 102591.
- [5]. Abd Elaziz, Mohamed, Sudhakar Babu Thanikanti, Ibrahim Anwar Ibrahim, Songfeng Lu, Benedetto Nastasi, Majed A. Alotaibi, Md Alamgir Hossain, and Dalia Yousri (2021) "Enhanced Marine Predators Algorithm for identifying static and dynamic Photovoltaic models parameters." Energy Conversion and Management 236: 113971.
- [6]. PandiaRajan Jeyaraj, Aravind ChellachiKathiresan, Siva Prakash Asokan, Edward Rajan Samuel Nadar, HegazyRezk, and Thanikanti Sudhakar Babu (2021) "Power System Resiliency and Wide Area Control Employing Deep Learning Algorithm". Computers, Materials & Continua Tech Science Press, 2021, vol.68, no.1, pp. 553-567.
- [7]. Yousri, Dalia, SeyedaliMirjalili, JA Tenreiro Machado, Sudhakar Babu Thanikanti, and Ahmed Fathy. "Efficient fractional-order modified Harris hawks optimizer for proton exchange membrane fuel cell modeling (2021)" Engineering Applications of Artificial Intelligence 100: 104193.
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- [10]. Nazeri, Mohammad Nor Rafiq, Mohammad FaridunNaim Tajuddin, Thanikanti Sudhakar Babu, Azralmukmin Azmi, Maria Malvoni, and Nallapaneni Manoj Kumar (2021) "Firefly Algorithm-Based Photovoltaic Array Reconfiguration for Maximum Power Extraction during Mismatch Conditions." Sustainability 13, no. 6: 3206.
- [11]. Rezk, Hegazy, Thanikanti Sudhakar Babu, Mujahed Al-Dhaifallah, and Hamdy A. Ziedan (2021) "A robust parameter estimation approach based on stochastic fractal search optimization algorithm applied to solar PV parameters." Energy Reports 7: 620-640.
- [12]. Dharani, Rajavelu, MadasamyBalasubramonian, Thanikanti Sudhakar Babu, and Benedetto Nastasi (2021) "Load Shifting and Peak Clipping for Reducing Energy Consumption in an Indian University Campus." Energies 14, no. 3: 558.
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shading influence in photovoltaic arrays." Sustainable Energy Technologies and Assessments 40: 100738.

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- [23]. M. Premkumar, S. Umashankar, Thanikanti Sudhakar Babu, P. Sanjeevikumar, Jens Bo Holm-Nielsen, Massimo Mitolo, R. Sowmya, "Improved Perturb And Observation MPPT Technique for Solar Photovoltaic Power Generation Systems", IEEE Systems Journal.
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International / National Conferences form the year 2017

- [1]. Aidha Muhammad Ajmal, T. Sudhakar Babu, Vigna K. Ramachandaramurthy, Janaka B. Ekanayake. "Effect of Partial Shading and performance analysis on various array configurations in Photovoltaic system", International Conference on Renewable Power Generation (RPG), Shanghai, China. Accepted for Presentation.
- [2]. T. Sudhakar Babu, Karthik Balasubramanian, Rajasekar Natarajan, "An Innovative Optimal Parameter Extraction of PEM Fuel Cell using an Effective Approach", 1st International Conference on Innovation in Modern Science and Technology (ICIMSAT-2019), Siluguri, India. Accepted for Presentation.
- [3]. T. Sudhakar Babu, Karthik Balasubramanian, Rajasekar Natarajan, "An Active Series-Parallel Electrical Array Reconfiguration System for Maximum Power Extraction During Partial Shaded Conditions", 2nd World Summit on Advances in Science, Engineering and Technology", IndianaSummit-2019. Accepted for Presentation.
- [4]. Mohammed Azharuddin Shamshuddin, Sudhakar Babu Thanikanti, Ramachandaramurthy
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- [6]. Karthik Balasubramanian, Sudhakar Babu Thanikanti, Rajasekar Natarajan, (2018) "An Innovative Approach of PEMFC Parameter Extraction Using Artificial Immune System", International Conference on Innovative Smart Grid Technologies (ISGT Asia 2018), Singapore.
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Monographs / Chapters

[1]. Thanikanti Sudhakar Babu, Dalia Yousri, Dalia Allam, Magdy B Eteiba, Karthik Balasubramanian, (2021) "Converter/Inverter Topologies for Standalone and Grid-Connected PV Systems" Renewable Energy and Future Power Systems, Springer Singapore, 35-80, https://doi.org/10.1007/978-981-33-6753-1_2, Scopus indexed.

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