

## BIO - DATA

1. Full Name : **Dr. Butti Dasu**
2. Designation : Associate Professor & HOD I/C
3. Office Address & Tel : Seshadri Rao Gudlavalleru Engineering College  
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4. Email Address : [dasubutti@gecgudlavallerumic.in](mailto:dasubutti@gecgudlavallerumic.in)
5. Date of Birth : 09-05-1980
6. Father's Name : B. Atchaiah



## EDUCATIONAL QUALIFICATIONS:

Qualification	University	Specialization	Year
B.E	Andhra University	EEE	2002
M.Tech	JNTUK, KAKINADA	Power System on Emphasis of High Voltage Engineering	2005
PhD	JNTUK, KAKINADA	Control Application to Power Systems	2020

## Professional Service:

University/College	Designation	Period
Gudlavalleru Engineering College	Assistant professor	15-12-2004 to 08-05-2010
	Sr. Grade Assistant professor	09-05-2010 to 01-07-2012
	Associate Professor	02-07-2012 to 30/11/2020
	Associate Professor & HOD I/c	1/12/2020 to till date

**PhD Title:** Development of Some New Aspects in Heuristic Algorithms For the Power System Stabilizer Design Through Large Scale System Modelling

**Areas of Interest:** Soft Computing Techniques, Power System Stabilizer Design, Grid Connected Power System Stability Issues.

## **Publications:**

1. Dasu Butti, M. Sivakumar, R. Srinivasarao, "Small Signal Stability Enhancement of Large Scale Power Systems using Bio-inspired Whale Optimization Algorithm", *Protection and Control of Modern Power Systems*, 6 (1), 1-17, 2021 **Springer**. (SCIE).
2. Dasu Butti et.al. "Power Enhancement in Partial Shaded Photovoltaic System Using Spiral Pattern Array Configuration Schemel **IEEE Access**, 9, 123103-123116, 2021 (SCIE).
3. Dasu Butti, M. Sivakumar, R. Srinivasarao, —Model order Reduction based Power system Stabilizer Design using Improved whale Optimization Algorithm| *IETE Journal of Research*, 1-20, 2021 **Taylor & Francis**. (SCIE).
4. Dasu Butti, M. Sivakumar, R. Srinivasarao, "An Improved Whale Optimization Algorithm for the design of Multi-machine Power System Stabilizer" *International Transactions on Electrical Energy Systems*, **Wiley**, vol. 30, issue 5, 2020. (SCIE).
5. Dasu Butti, M. Sivakumar, R. Srinivasarao, —Design of Robust Modified Power System Stabilizer for Dynamic stability Improvement Using Particle Swarm Optimization Techniquel *Ainshams Engineering Journal*, **Elsevier**, Vol 10, no. 4, 2019. (SCIE).
6. Dasu Butti, M. Sivakumar, R. Srinivasarao, "Interconnected Multi machine power system stabilizer design using whale optimization algorithm" *Protection and Control of Modern Power Systems*, **Springer**, Volume. 4, article 2, 2019. (SCIE).
7. Dasu Butti, M. Sivakumar, R. Srinivasarao, —Optimal Design of Modified Power System Stabilizer using Multi Objective based Bio Inspired Algorithms| *International Journal of Engineering Optimization and Energy (IJEQE)* Volume 07, issue 4 article 2, 2018. (Web of Science & ESCI).
8. Dasu Butti, M. Sivakumar, R. Srinivasarao, -An Improved Whale Optimization Algorithm for the Model Order Reduction of Large Scale Systems| *Journal of Electrical Systems and Information Technology* (Springer). Under Review.
9. Dasu Butti, M. Sivakumar, R. Srinivasarao, -Root sensitivity analysis of Higher order system via reduced order modell *IEEE International Conference (ICEAS)* DOI: 978-1-4673-0136-7/11 IEEE. (Scopus).
10. M. Sivakumar, **Dasu Butti**, G. Ramesh, -Design of LQR Based Stabilizer for Rotary Inverted Pendulum System| *IJCTA*, vol.9,pp:29,2016. (Scopus).
11. Dr.M.Sivakumar and **B.Dasu** —Design and Simulation of Digital Controller for Higher Order Discrete–Time Systems through Reduced Order Modell Proc.of. *International Journal of Applied Engineering Research (IJAER)* with ISSN: 0973- 4562 Volume 6, Number 9 (2011) pp. 1159-1167. (Scopus).

12. B. Dasu et al, –Model order reduction of SISO and MIMO systems using particle swarm optimization, International Journal for Research in Applied Science & Engineering Technology, *Volume 3 Issue II, February 2015.*
13. B. Dasu et.al –Performance Evaluation of Switched Boost converter for Induction Machine Drive Application Proc.of. International Journal of Engineering & Science Research, ISSN: 2277—2685 , volume -4/Issue-10/703-710, October-2014.
14. B. Dasu et.al., –A Novel DG Interface with Power Quality Improvement Features at Distribution Level using Instantaneous P-Q Theory Proc.of. International Journal of Electrical and Electronics Engineering, ISSN: 2231-5184, volume -4, Issue-2, 2013.
15. B. Dasu et.al. –A Hybrid Reduction Technique For Transformer Linear Section Model International Journal of Engineering Research & Technology, ISSN: 2278- 0181, Volume-2, Issue 11, November- 2013.
16. B. Dasu et.al., –UPQC under loading conditions International journal of Engineering and Science Research, with ISSN: 2278-0211, October, 2012.
17. B. Dasu et al, –De- Noising of Partial Discharge Signal and Comparison of Different Wavelet Techniques Proc.of. International J. of Engg. Research & Indu. Appls. (IJERIA). ISSN: 0974-1518, Vol. 4, No. III (August 2011), pp 79-86.
18. Dr. M.Sivakumar and B. Dasu —A Novel Order Reduction Technique for Higher Order Plants with Parametric Uncertainty Proc.of. International Journal of Engineering Research & Indu. Appls. (IJERIA). ISSN: 0974-1518, Vol.4, No.II (May 2011), pp 211- 218.

### **List of Workshops Organized:**

1. Acted as Co-coordinator for the **AICTE sponsored Short Term Training Program on** “*Automation and Intelligent Control of Electrical Systems-Phase-III*” during November 16-21, 2020.
2. Acted as Co-coordinator for the **AICTE sponsored Short Term Training Program on** “*Automation and Intelligent Control of Electrical Systems-Phase-II*” during September 21-26, 2020.
3. Acted as Co-coordinator for the **AICTE sponsored Short Term Training Program on** “*Automation and Intelligent Control of Electrical Systems-Phase-I*” during August 03-08, 2020.
4. Acted as the Coordinator for the Workshop on “*House Wiring*” for the benefit of unemployed rural youth at Gudlavalleru Engineering College, Gudlavalleru.

5. Conducted a workshop on —Recent trends on Power system Protection‖ at Gudlavalleru Engineering College, Gudlavalleru.

**List of Workshops /Conferences /Seminars Attended:**

1. A one week **AICTE sponsored Short Term Training Program (STTP) on “Automation and Intelligent control of Electrical Systems”** organized by Gudlavalleru Engineering College from 16-11-2020 to 21-11-2020.
2. A one week **AICTE sponsored Short Term Training Program (STTP) on “Automation and Intelligent control of Electrical Systems”** organized by Gudlavalleru Engineering College from 21-09-2020 to 26-08-2020.
3. A one week **AICTE sponsored Short Term Training Program (STTP) on “Automation and Intelligent control of Electrical Systems”** organized by Gudlavalleru Engineering College from 03-08-2020 to 08-08-2020.
4. A one-week Faculty Development Programme (FDP) on *–Applied Research on Renewable Energy Sources and Micro grids‖* organized by Department of Electrical and Electronics Engineering, Gudlavalleru Engineering College from 18-11-2019 to 23-11- 2019.
5. A two week ISTE STTP on *–Electric Power System‖* conducted by Indian Institute of Technology Kharagpur from 03-07-2017 to 15-07-2017. This workshop was held under the National Mission on Education through ICT (MHRD).
6. A one week refresher course on *–Basic Electrical Engineering‖* organized by Gudlavalleru Engineering College from 19-06-2017 to 24-06-2017.
7. A two day staff training program on *–MATLAB Tools for Engineers – Hands on Experience‖* organized by Gudlavalleru Engineering College from 10-01-2017 to 11-01- 2017.
8. A one week workshop on *–Advanced Industrial Automation Training‖* organized by Gudlavalleru Engineering College from 14-11-2016 to 18-11-2016.
9. A two day national convention and national seminar on *–Intelligent System for more connected world: Internet of Things‖* organized by The Institution of Engineers (India) Andhra Pradesh State Center from 24-10-2016 to 25-10-2016.

10. A one week refresher course on *-Pedagogy on Machines and Power Systems* organized by Gudlavalleru Engineering College from 09-06-2016 to 15-06-2016.
11. A one week Faculty Development Programme (FDP) on *-Emerging Trends in Research Areas of Electrical Engineering* organized by Gudlavalleru Engineering College from 07-12-2015 to 11-12-2015.
12. A one week Faculty Development Programme (FDP) on *-ETAP Software Training and Its Applications* organized by Gudlavalleru Engineering College from 02-06-2015 to 08-06-2015.
13. A two week audit course (Ph.D) on *-Intellectual Property Rights and Patents* organized by Jawaharlal Nehru Technological University, Kakinada
14. A two week audit course (Ph.D) on *-Research Methodologies* organized by Jawaharlal Nehru Technological University, Kakinada .
15. Attended a one day work shop on *—Wavelets Applications in Electrical Engineering* on 23<sup>rd</sup> october 2010 at Gudlavalleru Engineering College, Gudlavalleru
16. Attended a three day AICTE sponsored National Conference on *—Recent Trends in Electrical Engineering for sustainable development* during 24<sup>th</sup> to 26 December, 2008 at Gudlavalleru Engineering College, Gudlavalleru.
17. A Three Day Workshop on *—Computer Applications to Power System Protection*. During 4<sup>th</sup>–6<sup>th</sup> November 2008. R.V.R.J.C.College of Engineering, Chowdavaram.
18. Attended a one day National Seminar on *—Power System Operation & Computer System Functions in Grid Management* on 27<sup>th</sup> October 2007 at Gudlavalleru Engineering College, Gudlavalleru.
19. Attended a one day work shop on *-Wavelets & Its Application to Power System Protection* on 8<sup>th</sup> September 2007 at V.R.Siddhartha Engineering College, Vijayawada.
20. Attended a one day workshop on *-Development & Maintenance of Transformers* on 24<sup>th</sup> January, 2007 by P.V.P.Siddhatha Institute of Technology, Kanuru.
21. Attended a one day workshop on *—Career Counseling* on 20<sup>th</sup> January 2007 at Gudlavalleru Engineering College conducted by National Institute for Technical Teachers Training and Research, Chennai
22. *Student feedback & performance appraisal* on 17<sup>th</sup> Feb 2007 at Gudlavalleru Engineering College conducted by National Institute for Technical Teachers Training and Research, Chennai.
23. *—Guidance & counseling for teachers on their teaching, individually* during 30<sup>th</sup> June to 1<sup>st</sup>

July, 2007 at Gudlavalleru Engineering College conducted at National Institute for Technical Teachers Training and Research, Chennai

24. Attended a six day workshop on —Instructional Design & Deliveryl from 3<sup>rd</sup> Julyto 8<sup>th</sup> July 2006 at Gudlavalleru Engineering College conducted by National Institute for Technical Teachers Training & Research, Chennai.

**Guest Lectures Delivered:**

1. Delivered a lecture on Interconnected Multi-machine power System stabilizer Design using Heuristic Algorithms in AICTE sponsored Short Term Training Program onl *“Automation and Intelligent Control of Electrical Systems-Phase-III* during November 16-21, 2020.

**Works carried out**

- Acted as NBA coordinator for two times (2016 and 2019)
- Acted as coordinator for Human resources for Faculty (NBA-criteria-5) from 2005 to 2016
- Acted as Department Autonomous coordinator for two regulations (R-14 and R-17)
- Overall Electrical maintenance Engineer in GEC for about 4 years

**PROJECTS GUIDED:**

**Post Graduation: 10**

**Under Graduation: 36**

**Dasu Butti**