Personal Information

Name	**Dr. Balusu Srinivasa Rao**
Years of Experience	Teaching: 28 Years 2 Months Research: 8 Years Industry: NIL
Email Id	srao.balusu@bvrithyderabad.edu.in
CN ID	thecn.com/BR609
Areas of Specialization	Power Systems

Date of Joining: ***27-10-2022***

Educational Qualifications

Doctoral Degree	Ph.D.	EEE – Power Systems
PG Degree	M.Tech.	Electrical Power Systems
UG Degree	B.Tech.	Electrical and Electronics Engineering

Professional Experience

S. No	Duration	Designation	Institute	Experience
1.	27-10-2022 to till date	Professor, EEE Department	BVRIT Hyderabad College of Engineering for Women	Working
2.	1-7-2015 to 26-10-2022	Professor, EEE Department	V.R. Siddhartha Engineering College, Vijayawada	7Y 4M
3.	1-4-2004 to 30-6-2015	Associate Professor, EEE Department	V.R. Siddhartha Engineering College, Vijayawada	11Y 3M
4.	01-6-2001 to 31-3-2004	Reader in EEE Department	SIR C.R.Reddy College of Engineering, Eluru	2Y 10M
5.	4-11-1996 to 31-5-2001	Lecturer in EEE Department	V.R. Siddhartha Engineering College, Vijayawada	4Y 7M

Funded Projects:

1. ***CARS-Anurag, DRDO, Hyderabad***
   Title: Analysis & Implementation of Energy Harvesting Techniques to Power GPS
   Principle Investigator: Dr. B. Srinivasa Rao, Professor, EEE, VRSEC
   Total Project Cost Rs: **9.8 Laks;** Duration: 16th June 2016–15th Feb 2018
2. ***UGC Minor Research Project***
   Title: Optimal Operation of Power System with Multi-type FACTS devices using Artificial Immune System based algorithm
   Principle Investigator: Dr. B. Srinivasa Rao, Professor, EEE, VRSEC
   Total Project Cost Rs. **4.0 Laks;** Duration: January 2015 - December 2016
3. ***AICTE-MODROB Project***
   Title: MODROB Power Systems lab
   Co-Investigator: Dr. B. Srinivasa Rao, Professor, EEE, VRSEC
   Project amount of Rs. **12.0 Laks;** Duration: 2007-2009**.**
4. ***AICTE-STTP under AQIS 2019-20***
   Title: "**Recent trends and challenges in power market with smart grid technology"**
   Project amount Rs. 3.45Laks
   Coordinator: Dr. B. Srinivasa Rao, Professor, EEE, VRSEC

Research Publications

Patent Published:

[1] German patent titled "**Wind Solar-Diesel-hybrid electric vehicle**" (202022 100 316.5), Published on 10th March 2022; Authors - Alla Srinivasa Reddy, Kanchapogu Vaisakh, Pidatala Prabhakara Sharma, **Balusu Srinivasa Rao**, Umme Salma, Kothapalli Naga Sujatha & Shaik Kalesha Vali.

[2] UK design patent titled "**Solar Powered Agriculture E-Vehicle" (**6256059) published on 30th January 2023; Authors - Kanchapogu Vaisakh, **Balusu Srinivasa Rao**, K Veeresham, M.Veerakumari, B.Kiran Karunakar Rao & Raavi Satish.

[3] Indian design patent titled "**Smart Home Energy Management System**" (405409-001); published on 14th April 2024; Authors – Dr. Kanchapogu Vaisakh, **Dr. Balusu Srinivasa Rao** Dr. N.Bhupesh Kumar, Dr.M.Veera Kumari & Mr.K.Kiran Kumar.

[4] UK design patent titled "**Controller for Energy Management in A Renewable Energy-Based Microgrid" (**6384722) **published** on 24th August 2024; Authors – Dr. Kanchapogu Vaisakh, Dr. Naga Sujatha Kothapalli, Dr. **Balusu Srinivasa Rao**, K Veeresham and Dr. Mohammed Azaharahmed.

[5] Indian Patent titled "**Low-Cost Arduino Based Electrical Energy Monitoring System**" (202441065924) published on 13-09-2024; Authors: Mr. C. Krishna Reddy, Rampelli Manojkumar, Balusu Srinivasa Rao, & BVRIT HYDERABAD College of Engineering for Women

[6] Indian Patent titled "**Low-Cost Arduino Based Solar Panel I-V and P-V Characteristics Tracer**" (**202441066095)** published on 13-09-2024; Authors: Mr. C. Krishna Reddy, Dr. R. Manojkumar, Dr. B. Srinivasa Rao

Book Chapter:

[1] **B. Srinivasa Rao** and K. Vaisakh, "Multi-Objective Optimization Methods for Solving the Economic Emission Dispatch Problem", *Computational Intelligence Applications in Smart Grids: Enabling Methodologies for Proactive and Self-Organizing Power Systems*, February 2015, Pages 77-111 (Imperial College Press).

International Journals:

[1] **B. Srinivasa Rao** and K. Vaisakh, "Multi-objective Adaptive Clonal Selection Algorithm for Solving Environmental / Economic Dispatch and OPF Problems with Load Uncertainty", *International Journal of Electrical Power and Energy Systems, December 2013, Volume-53, Pages 390-408(Elsevier Publications, Impact factor1.52).*

[2] **B. Srinivasa Rao** and K. Vaisakh, "New Variants/Hybrid Methods of Memetic Algorithm for Solving Optimal Power Flow Problem with Load Uncertainty", I*nternational Journal of Hybrid Intelligent Systems (IJHIS), Volume 10, Number 3 2013, pages 117-128, (IOS Press)*

[3] **B. Srinivasa Rao** and K. Vaisakh, "Multi-Objective Adaptive Clonal Selection Algorithm for Solving Optimal Power Flow with Wind Energy Conversion Systems and Load Uncertainty", *International Journal of Power and Energy Systems, Vol. 33, No. 3, 2013, pages 119-129 (ACTA PRESS Publications, Impact factor0.14).*

[4] **B. Srinivasa Rao** and K. Vaisakh, "Multi-objective Adaptive Clonal Selection Algorithm for Solving Optimal Power Flow Considering Multi-Type FACTS Devices and Load Uncertainty", *Applied Soft Computing* – 23 (2014) 286–297 *(Elsevier Publications, Impact factor1.86)*.

[5] Praveen .J and **B. Srinivasa Rao "** Single objective optimization using PSO with Interline Power Flow Controller", *International Electrical Engineering Journal (IEEJ),* Vol. 5 (2014) No.12, pp. 1659-1664

[6] Rao, S. Manmadha, SVR Lakshmi Kumari, and **B. Srinivasa Rao**. "Compensation of Unbalanced Sags/Swells by Single Phase Dynamic Voltage Restorer. "*International Electrical Engineering Journal (IEEJ)* Vol. 6 (2015) No.1, pp. 1743-1748

[7] **B. Srinivasa Rao** and K. Vaisakh, "Multi-Objective Adaptive Clonal Selection Algorithm for Solving Optimal Power Flow Problem with Load Uncertainty", *Int. J of Bio-Inspired Computation(IJBIC)*, 2016 Vol.8, No.2, pp.67-83 (*Inderscience publication Impact factor1.01)*

[8] A. Bala Naga Lingaiah and **B. Srinivasa Rao** "*Solving Multi Objective ORPD Problem Using AIS Based Clonal Selection Algorithm with UPFC*", Journal of Electrical Systems(JES), Vol.13, Issue.1, 2017

[9] **B. Srinivasa Rao**, *"Application of Adaptive Clonal Selection Algorithm to Solve Multi-Objective Optimal Power Flow with Wind Energy Conversion Systems",* International Journal of Power and Energy Conversion*,* Vol.8, Issue.3, 2017, Inderscience, pp.322-342.

[10] **Balusu, Srinivasa Rao**, and Lakshmi Narayana Janaswamy. *"Enhancement of ATC Using PSO by Incorporating Generalized Unified Power Flow Controller."* Artificial Intelligence and Evolutionary Computations in Engineering Systems. Springer, Singapore, 2018. 561-573.

[11] Nadakuditi, G**., Balusu, S**., Bathina, V., & Narasimham, P. V. R. L. "*Nondominated sorting-based disruption in oppositional gravitational search algorithm for stochastic multiobjective short-term hydrothermal scheduling"*, Soft Computing, Springer (2018).

[12] K. Indira, **B. Srinivasa Rao**, "*Transmission Expansion Planning Considering Wind Energy Conversion Systems Using PSO"*, International Journal of Engineering and Advanced Technology (IJEAT)ISSN: 2249 – 8958, Volume-8, Issue-6S3, September 2019

[13] Yadlapalli, Ravindranath Tagore, Anuradha Kotapati, Rajani Kandipati, **Srinivasa Rao Balusu**, and Chandra Sekhar Koritala. "*Advancements in energy efficient GaN power devices and power modules for electric vehicle applications: a review*. "*International Journal of Energy Research*, Wiley, 04 April 2021

[14] Yadlapalli, Ravindranath Tagore, Anuradha Kotapati, and **Srinivasa Rao Balusu**. "Fuzzy logic control based high step up converter for electric vehicle applications." *International Journal of Innovative Computing and Applications* 13.1 (2022): 41-56.

International Conferences:

[1] **B. Srinivasa Rao** and K. Vaisakh, "Application of Clonal Selection Algorithm and Its Variant for Solving Single Objective OPF Problems" *IEEE International Conference on Advanced Research in Engineering and Technology (ICARET-2013) at K L University, Vijayawada, A.P, Feb 8-9, 2013, pp.406-412.*

[2] **B. Srinivasa Rao** and K. Vaisakh, "Application of ACSA for Solving Multi-Objective Optimal Power Flow Problem with Load Uncertainty", *IEEE International Conference on Emerging Trends in Computing, Communication and Nanotechnology (ICE-CCN 2013),* at Infant Jesus College of Engineering & Technology, India. *Tuticorin, Tamilnadu, India, March 25-26, 2013, pp.764-771.*

[3] **B. Srinivasa Rao** and K. Vaisakh, "Application of ACSA to solve single/multi objective OPF problem with FACTS devices", *15th IEEE International Conference on Advanced Computing Technologies (ICACT), at* Annamacharya Institute of Technology & Sciences, Rajampet, A.P., *21st - 22nd September 2013*.

[4] **B. Srinivasa Rao** and K. Vaisakh, "Application of ACSA to solve single/multi objective OPF problem with multi type FACTS devices", *5th IEEE PES Asia-Pacific Power and Energy Engineering Conference (APPEEC 2013) at Kowloon Shangri-La Hotel, Hong Kong, 8th – 11th December 2013*.

[5] **B. Srinivasa Rao** and K. Vaisakh, "Adaptive Clonal Selection Algorithm for solving OPF problem with Emission Constraints", *Annual IEEE India Conference (INDICON 2013) at IIT Mumbai, India 13th – 15th December 2013*.

[6] **B. Srinivasa Rao** and K. Vaisakh "Solving Economic Emission Dispatch Problem Using Adaptive Clonal Selection Algorithm*", International Conference on Environment & Energy 2013 (ICEE-2013) at International Center for Research and Development*, Srilanka, 18th -19th December 2013.

[7] J.Praveen and **B.Srinivasa Rao**, "Comparative Study of UPFC and IPFC For Single Objective Optimization Using PSO", *2nd International Conference on power system analysis control and optimization (ICPSACO-2015)* at Andhra University, Visakhapatnam, A.P., India 10th to 12th December, 2015.

[8] J Praveen and **B. Srinivasa Rao**, "Multi objective optimization for optimal power flow with IPFC using PSO" *3rd International Conference on Electrical Energy Systems (ICEES-2016)* at SSN College of Engineering, Chennai, India during 17th – 19th March 2016.

[9] Lakshmi Narayana Janaswamy, **Srinivasa Rao Balusu**, "Enhancement of ATC using PSO by Incorporating Generalized Unified Power Flow Controller", *Joint International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems (ICAIECES-2017) & Power, Circuit and Information Technologies (ICPCIT-2017),* at Madanapalle Institute of Technology & Science (MITS), Madanapalle, India during 27-29 April 2017. (***Awarded as Best Paper in Conference***).

[10] K. Indira, Dr. B. Srinivasa Rao, "**Transmission Expansion Planning Considering Wind Energy Conversion Systems Using PSO"** *International Conference on Innovations in Power, Energy and Intelligent Control Systems(IPEICS-2019)* at Vignan's Foundation for Science, Technology & Research, Vadlamudi, Guntur Dist., Andhra Pradesh on 8th - 10th August 2019.

[11] T. Aravind, B.Srinivasa Rao "**Optimal Power Flow Using Firefly Algorithm with Solar Power**" *International Conference on Emerging Technologies for Computing Communication and SMART cities (ETCCS-2021)* at Baba Farid College of Engineering and Technology, Bathinda, Punjab, India on 21-22 August 2021.

[12] Kuntla Veeresham, B.Srinivasa Rao and Maddipati Veerakumari, "**Multi-Criteria Optimization of Power System with Various Controllers Using Bat Algorithm"** First International Conference On *Recent Advances in Smart Energy Systems & Intelligent Automation (RASESIA 2024*) held at NIT Kurukshetra, June 14-15, 2024.

[13] Chamakura Krishna Reddy, Rampelli Manoj kumar, Prasanta Kumar Jena and **Balusu Srinivasa Rao**, "**Electrical Parameters Data Extraction for Effective Monitoring and Controlling of Smart Buildings**" *IEEE-Sponsored International Conference on Sustainable Power and Energy (ICSPE) 2024* at O.P. Jindal University, Raigarh, Chhattisgarh, India. on 28th - 29th November 2024.

National Conferences:

[1] K. Sirisha and **B.Srinivasa Rao**, "Modelling and Placement of SSSC to Resolve Congestion and Minimize the Transmission Losses" National Conference on Control of Power Electronic Drives and Systems (CPEDS-2010) at Andhra University, Visakhapatnam, A.P., 30th – 31st May 2010.

[2] Azeem Salma SK and **B. Srinivasa Rao**, "Optimal Location of TCSC for Line Congestion using Sensitivity Method" National Conference on Control of Power Electronic Drives and Systems (CPEDS-2010) at Andhra University, Visakhapatnam, 30th – 31st May 2010

[3] S. Naga Devi and **B. Srinivasa Rao**, "Comparative Study of Optimal Location of UPFC using Sensitivity Factor Approach and L-Index Methods" National Conference on Advances and Applications in Power Systems, Power Electronics and Solar Energy (AAPS-2013) at JNTUH College of Engineering, Jagityala, A.P., 24th – 25th Oct 2013.

[4] A.Bala Naga Lingaiah and **B.Srinivasa Rao**, "Artificial Immune System based Clonal selection algorithm to solve ORPD problem with UPFC" National Conference on Power Systems (NCPS-2015) at Andhra University, Visakhapatnam, A.P.25th & 26th September, 2015, pp. 7-12.

Professional Memberships:

- **ISTE**- Life member - LM25171 from December 1997
- **IEEE-**Senior Member (from 2021) & Professional member (from 2014) - 93062631
- **FIE** (Fellowship member -F1222038 from January 2017)

Resource Person

1. Delivered an invitee talk on "***Solving Economic Emission Dispatch Problem Using Adaptive Clonal Selection Algorithm***" at S R K R Engineering College, Bhimavaram during valedictory section of SANKALP-2014 on 24.12.2014.
2. Delivered an invitee talk on "***Solving Economic Emission Dispatch Problem Using Multi-objective Adaptive Clonal Selection Algorithm***" at Visakha Institute of Engineering & Technology, Visakhapatnam during ELECTRIKOTSAV 2k15 on 23.09.2015.
3. Delivered an invitee talk on "***Power System Optimization Using PSO***" in a Two-Day National Workshop on "**Evolutionary Computing: An Intelligent Problem Solving for Science and Engineering Applications**" organized by the Department of Computer Applications, RVR & JC College of Engineering, Guntur during 27th-28th November, 2015.
4. Judge for National Level Technical Symposium – ELECTRIC TARANG-2015" at R V R & J C College of Engineering, Guntur on 28-2-2015.
5. An industrial Visit to PRDC, Bangalore & BEC, Bagalkot to study the NRDE, Smart Grid Simulation software and Campus SCADA Lab established by PRDC at BEC, Bagalkot on 23rd - 25th February 2015.
6. Resource person for one day Workshop on "***MATLAB Applications to Electrical Engineering***" organized by the Department of Electrical and Electronics Engineering, Sai Ganapathi Engineering College, Anandapuram, Visakhapatnam on 4thMarch, 2016.
7. Delivered a Technical Talk on "*Recent Trends in Energy Harvesting Techniques and Applications*" during CEP Course at **ANURAG Labs, DRDO**, Hyderabad on 23rd June 2016.
8. Resource person for two day Workshop on "***Matlab Programming And Simulink Applications in Electrical Engineering***" organized by the Department of Electrical and Electronics Engineering, Sai Spurthi Institute of Technology, B.Gangaram, Sathupally during 15th& 16th July, 2016.

9. Delivered a Technical Talk on "**History, trends in power system protection and static relays**" during Workshop on **Relay Technologies** [from Electromagnetic relays to Numerical Relays] 19-23rd Dec 2017 at VRSEC, Vijayawada
10. Delivered an expert lecture on "**Artificial Immune System Based Clonal Selection Algorithm and its Variants**" during a Five Day FDP on "**Metaheuristic Techniques: Applications To Power Engineering** at LBRC, Mylavaram on 10th May 2018
11. Delivered a Talk on "**MATLAB coding basics & MiPower Applications**" in FDP on Electrical Engineering Software Tools Expo on 30-4-2018 at VRSEC, Vijayawada.
12. Delivered a talk on Ways & Types of Leadership for effective administration" on Tuesday, 18 Dec., 2018 at AP HRDI, Bapatla during Three-day training programme on "Ethics & Values in Administration" sponsored by DoPT, GoI for Direct Recruits of ASOs of GAD and Finance from 17th to 19th Dec., 2018.at APHRDI, Bapatla
13. Delivered an expert lecture on **"Power Systems Studies using MiPower"** during one-week FDP on "**Recent Advancements in Generation and Control in Modern Power Systems**" organized by GMRIT, Rajamin collaboration with V. R. Siddhartha Engineering College, Vijayawada from 7-12th March, 2022.
14. Delivered an invitee talk on **"Smart Electric Grid: General Introduction"** during **National Conference** on "Smart Electrical & Communication Technologies", during 20th & 21st May – 2022 organized by SIR C R Reddy College of Engineering**,** Eluru.
15. Judge for **National Conference** on "**Smart Electrical & Communication Technologies**", at SIR C R Reddy College of Engineering**,** Eluru during 20th & 21st May – 2022.
16. Editorial Board member & Session Chairperson (Session II(A)) on 10.01.2020 in International Conference on Smart Energy Systems and Electric Vehicles **(ICSESEV-2020)** held during Jan 8th-10th, 2020 at V R Siddhartha Engineering College, Vijayawada, Andhra Pradesh, India
17. Organizing Chair for International Conference on Smart and Intelligent Systems **(SIS-2021)**, held in Department of Electrical and Electronics Engineering, V R Siddhartha Engineering College, Andhra Pradesh, India, during February 25-26, 2021 (online mode).
18. Session Chair in IEEE International Conference on **Computational Intelligence, Green and Sustainable Technologies** (ICCIGST-2024) held on July 18th 2024 at Siddhartha Academy of Higher Education (SAHE) Deemed to be University, Vijayawada, Andhra Pradesh, India.

Administrative Experience:

1. ***NIRF Nodal officer*** at **V R Siddhartha Engineering College** from 2016 to 2022.
2. ***Overall Coordinator*** for various engineering institutional ranking agencies from 2016 to 2022 at **V R Siddhartha Engineering College**.
3. Served as ***PG program coordinator*** in EEE department @VRSEC from 2007 onwards and the PG program (M.Tech-Power Systems Engineering) also got NBA accredited in 2015.
4. Inception ***Assistant Controller of Examinations (Autonomous)*** at VRSEC, Vijayawada for the period of 2008 to 2009.
5. Member in College level committee constituted by principal on 25-10-2014 for preparing the draft copy of "Document Retention Policy" of VRSEC.
6. **Institute level member** of Faculty Assessment Committee **(FAC)** to evaluate Performance Based Appraisal System (PBAS) of faculty for the period 2017 to 2022 in VRSEC.
7. **Member of Disciplinary Action Committee** of VRSEC for student affairs, confidential exam section and employee indiscipline from 2009 to 2022.
8. IQAC Coordinator at BVRIT Hyderabad College of Engineering for Women from April 2023.

Workshops / Seminars / FDP / Short Term Courses

A) Organized:

1. Coordinator for A two day state level workshop on “PSCAD Software” organized by EEE Department at VRSEC, Vijayawada on 30-31st March 2007
2. Co-coordinator for AFOSEC-2011, a two day Techno cultural fest of VRSEC, Vijayawada
3. Coordinator for a Three day workshop on “Computer Applications to Power Systems Using Mipower” organized by EEE Department at V R Siddhartha Engineering College, Vijayawada under TEQIP-II S.C 1.2 on 12th–14thApril 2015.
4. Coordinator for an AICTE sponsored STTP on "**Recent trends and challenges in power market with smart grid technology**" *Phase-I* from **2nd – 7th November 2020** (online).
5. Coordinator for an AICTE sponsored STTP on "**Recent trends and challenges in power market with smart grid technology**" *Phase-II* from **28th December 2020 to 2ndJanuary 2021** in online mode**.**
6. Coordinator for an AICTE sponsored STTP on "**Recent trends and challenges in power market with smart grid technology**" *Phase-III* from **20th-20th Sept 2021** in online mode**.**
7. Organized 10 days workshop on "**Electric Vehicle Manufacturing with Golf Cart**" for II and III year EEE students at BVRITH from **1-11-2023 to 10-11-2023**.
8. Convener for One Week National Level FDP (Hybrid Mode) on “**Assimilation of Indian Knowledge Systems with NEP – 2020: Prospect and Retrospect”** from 30th July to 4th August, 2024 organized by: Dept. of Basic Sciences and Humanities & Internal Quality Assurance Cell (IQAC), BVRIT Hyderabad College of Engineering for Women, Hyderabad.

B) Attended:

1. One-day workshop on “ISO 9000 Quality Systems” organized by Mechanical Engineering department at V R Siddhartha Engineering College, Vijayawada on 20th February 1997
2. Two days National seminar on “Restructuring of Technical Education System for Better efficiency and effectiveness” organized by ISTE chapter at V R Siddhartha Engineering College, Vijayawada during 5-6th December 1997.
3. Two days ISTE training programme on “Induction Training for Teachers” organized by ISTE-CE Cell and Department of Mechanical Engineering at R V R & J C College of Engineering, Guntur during 27th-28th April 1998.
4. AICTE-ISTE sponsored winter school on “Power System Modelling and Simuation” organized by Department of Electrical & Electronics Engineering at SIR M.Visvesvaraya Institute of Technology, Bangalore held on 20th September to 1st October 1999.
5. AICTE-ISTE short term training programme on “EMTP, MATLAB, PSPICE packages and their applications in Electrical Engineering” organized by department of Electrical Engineering, Regional Engineering College, Warangal from 27-12-1999 to 8-1-2000.
6. National Workshop on Emerging trends in power sector, organized by Dept. of Elect. Engg, AU College of Engineering, Visakhapatnam during 28-29th January, 2005.
7. Two days “Internal Auditor training course based on ISO 9001-2000 requirements” organize by TUVS India, at VRSEC, Vijayawada on 15-16th April 2005.
8. ISTE sponsored two-day Refresher course on “Effective Teaching Methodology” conducted on 8-9th December 2006.
9. Three-days short-term course on “Power system optimization in the presence of FACTS devices organized by Department of Electrical Engineering, AU College of Engineering, Visakhapatnam during February 8-10, 2007

10. Two days state level workshop on "PSCAD Software" organized by Department of Electrical & Electronics Engineering at VRSEC, Vijayawada on 30-31stMarch 2007.
11. A one-day workshop on "Wavelets and its Applications to Power System" organized by Department of Electrical & Electronics Engineering at V R Siddhartha Engineering College, Vijayawada on 8th September 2007.
12. Three-days short-term course on "Application of Soft Computing Techniques to Power System Operation and Control" organized by Dept. of Elect. Engg., AU College of Engineering, Visakhapatnam October 25-27, 2007.
13. A Three days' workshop on "Intelligent FACTS Controllers" organized by department of Electrical Engineering, NIT, Warangal from 2-4th June 2008.
14. A one-day National workshop on "Power quality Analysis & Improvement Techniques" organized by Department of Electrical & Electronics Engineering at JNTU College of Engineering, Kakinada on 28thMarch 2009.
15. Three days workshop on "SCADA Applications to Power Systems" organized by Department of Electrical & Electronics Engineering at V R Siddhartha Engineering College, Vijayawada under TEQIP-II S.C 1.2 on 21st - 23rdMarch 2013.
16. Two days faculty development program on "Advances in Control and operation of distributed Systems" organized by Department of Electrical & Electronics Engineering at VRSEC, Vijayawada under TEQIP-II S.C 1.2 on 29th - 30th March 2013.
17. Three days workshop for Training Resource persons on Outcome Based Accreditation-Phase-II" conducted by NBA training Centre at VRSEC, Vijayawada from 26th - 28th September 2013.
18. Two-days workshop on "Hybrid Power Generation Systems" organized by Energy Efficiency & Renewable Energy division at CPRI, Bangalore on 11th-12thOctober, 2013.
19. A one-day workshop on "PLC & SCADA" organized by Department of Electrical & Electronics Engineering at PVP Siddhartha Institute of Technology and V R Siddhartha Engineering College, Vijayawada on 31stJanuary 2014.
20. Two-days DST sponsored National seminar on "Recent Innovative Trends in Electrical Motors & its Industrial Applications (RITEMIA-2014)" organized by Department of Electrical & Electronics Engineering at PVPSIT, Vijayawada on 20th-21st February 2014.
21. A two-day short-term course on "Fuzzy Systems and Neural Networks in Power System Optimization (FSNNPSO-2014)" organized by Dept. of Electrical Engineering, A U College of Engineering, Visakhapatnam on 4th-5th April 2014.
22. Two-days faculty development program on "Smart grid Technologies" organized by Department of Electrical & Electronics Engineering at V R Siddhartha Engineering College, Vijayawada under TEQIP-II S.C 1.2 on 11th - 12thApril 2014.
23. Two-days TEQIP II / CEP FDP on "Power System Optimization: AJourney from Conventional to Meta-Heuristic Techniques" organized by IIT Delhi, 5th–6th June 2015.
24. TEQIP sponsored "Management Capacity Enhancement Programme (MCEP)" at IIML Noida Campus during July 27th-31st, 2015.
25. Attended a Two Day CII – TEQIP Learning Mission to Bengaluru held on 25th& 26th Oct 2016, visited Bharat Fritz Werner Ltd, BOSCH Ltd. and Toyota Kirloskar Motors limited.
26. Attended an AICTE-UKIERI Leadership Development Programme 2018, New Delhi, Main Auditorium-AICTE from 13-11-2018 to 16-11-2018.
27. Attended an STTP through ICT Mode on NBA Accreditation by NITTR, Kolkata from 17-6-2019 to 21-6-2019

28. Participated in National Conf. on Indian Higher Education: Agenda for innovation-Leapfrogging inspite of all constraints by EPSI, Chennai on 14-9-2019.
29. Attended a one-day workshop on NIRF Ranking by APSCHE at ANU, Guntur Dist. On 17-10-2019.
30. Participated in one week International Online FDP on Computational Intelligence and Modeling in Modern Power System" organized by VRSEC from 22nd – 27th June 2020.
31. Participated in one-week workshop on "Introduction to PLECS tool for power electronics applications" by VRSEC in association with PLEXIM Switzerland from 2nd- 6th July 2020
32. Participated in Two days State Level Faculty Development Programme on "Quality Sustenance and Enhancement Parameters – NAAC and NIRF Ranking Frame work by Marudhar Kesari Jain College For Women, Vaniyambadi from 06-08-2020 to 07-08-2020
33. Attended ATAL Academy online FDP on "Electric vehicles" by NITTR, Gyan Ganga Institute of Technology and Sciences, Jabalpur from 1-9-2020 to 5-9-2020
34. Participated in One Week Online FDP on "Design and Development of Control Strategies on Electrical Power Applications - An Industrial Perspective" organized by PVPSIT, Vijayawada, Andhra Pradesh, India from 07/12/2020 to 12/12/2020.
35. Faculty Development Program (FDP) on "Research Grant for Higher Education Navajivan Center for Development, Gujarat on 19-12-2020
36. Three day FDP on "Outcome Based Education" SR Institute of Management & Technology, Lucknowfrom16-07-2020 to 18-07-2021
37. Successfully completed **30 Days Renewable Energy Systems Master Class** organized by APSSSDC – Pantech e-learning Pvt. Ltd, Chennai from Oct 17th – Nov 16th, 2021.
38. Participated in the online workshop on "Charging Infrastructure and Challenges for EV and ESS Charging" held on 10th March, 2022, organized by National Fire Service College, Ministry of Home Affairs, Government of India in collaboration with Underwriters Laboratories Inc
39. Participated in a Master Class on "Advance Power Management Techniques in Distribution" organised by **Tata Power Delhi Distribution Limited**, New Delhi. on March 30th-31st, 2022
40. Attended a 21 days National level FDP on "**Online teaching platform and tools (technology management in education)"** organized by scrollwell from November 25 - December 15, 2022.
41. 5-Day Online FDP on "PYTHON for Electrical & Electronics Engineering: A Faculty Development Program On Python Applications" organized by the Dept. of EEE, Rajeev Gandhi Memorial College of Engineering & Technology (Autonomous), Nandyal during 27th to 31st March 2023.
42. Completed 21 Days Masterclass certification on "**Power Electronics**" at Pantech eLearning from 23.08.2024 to 13.09.2024
43. Attended one week International Professional Development Program on "Smart Mobility: The Future of Autonomous Electric Vehicles" organized by EEE Department, BVRIT Hyderabad College of Engineering for Women, Hyderabad from 11th – 16th Nov 2024.

Certifications

- NPTEL: Control Systems (ELITE Certificate) – 80%
- Coursera: Engineering Project Management: Initiating and Planning – 86.73%
- Coursera: Electric Power Systems - **87.50%**
- Coursera: AI For Everyone - **96.88%**

- Coursera: Programming for Everybody (Getting Started with Python) - **96.61%**
- Coursera: Electric Industry Operations and Markets-**97.50%**
- Coursera: Introduction to battery-management systems - **89.00%**
- Coursera: Inspiring and Motivating Individuals - **93.72%**

Dr. B. Srinivasa Rao